

Thyristors

6 Amp Sensitive, Standard & Alternistor (High Commutation) Triacs

Absolute Maximum Ratings — Sensitive Triac (4 Quadrants)

Symbol	Parameter			Value	Unit
I_{TRMS}	RMS on-state current (full sine wave)	$Lxx06Ly/Lxx06Vy/Lxx06Dy$ $Lxx06Ry/Lxx06Ny$	$T_c = 80^\circ C$ $T_c = 85^\circ C$	6	A
I_{TSM}	Non repetitive surge peak on-state current (full cycle, T_j initial = 25°C)	$f = 50$ Hz $f = 60$ Hz	$t = 20$ ms $t = 16.7$ ms	50 60	A
I^2t	I^2t Value for fusing	$t_p = 8.3$ ms		15	A ² s
di/dt	Critical rate of rise of on-state current $I_G = 50$ mA with 0.1 μ s rise time	$f = 120$ Hz	$T_j = 110^\circ C$	70	A/ μ s
I_{GTM}	Peak gate trigger current	$t_p = 20\mu s$	$T_j = 110^\circ C$	4	A
P_{GAV}	Average gate power dissipation		$T_j = 110^\circ C$	0.4	W
T_{stg}	Storage temperature range			-40 to 150	°C
T_j	Operating junction temperature range			-40 to 110	°C

Note: xx = voltage/10, y = sensitivity

Absolute Maximum Ratings — Standard Triac

Symbol	Parameter			Value	Unit
I_{TRMS}	RMS on-state current (full sine wave)	$Qxx06Ry / Qxx06Ny$	$T_c = 95^\circ C$	6	A
		$Qxx06Ly$	$T_c = 90^\circ C$		
I_{TSM}	Non repetitive surge peak on-state current (full cycle, T_j initial = 25°C)	$f = 50$ Hz	$t = 20$ ms	65	A
		$f = 60$ Hz	$t = 16.7$ ms	80	
I^2t	I^2t Value for fusing	$t_p = 8.3$ ms		26.5	A ² s
di/dt	Critical rate of rise of on-state current $I_G = 200$ mA with 0.1 μ s rise time	$f = 120$ Hz	$T_j = 125^\circ C$	70	A/ μ s
I_{GTM}	Peak gate trigger current	$t_p = 20\mu s$	$T_j = 125^\circ C$	4	A
P_{GAV}	Average gate power dissipation		$T_j = 125^\circ C$	0.5	W
T_{stg}	Storage temperature range			-40 to 150	°C
T_j	Operating junction temperature range			-40 to 125	°C

Note: xx = voltage/10, y = sensitivity

Absolute Maximum Ratings — Alternistor Triac (3 Quadrants)

Symbol	Parameter			Value	Unit		
I_{TRMS}	RMS on-state current (full sine wave)	$Qxx06LHy/Qxx06VHy/Qxx06DHy$	$T_c = 95^\circ C$	6	A		
		$Qxx06RHy/Qxx06NHy$	$T_c = 100^\circ C$				
I_{TSM}	Non repetitive surge peak on-state current (full cycle, T_j initial = 25°C)	$f = 50$ Hz	$t = 20$ ms				
		$f = 60$ Hz	$t = 16.7$ ms				
I^2t	I^2t Value for fusing	$t_p = 8.3$ ms					
di/dt	Critical rate of rise of on-state current	$f = 120$ Hz	$T_j = 125^\circ C$				
I_{GTM}	Peak gate trigger current	$t_p \leq 10 \mu s$; $I_{GT} \leq I_{GTM}$	$T_j = 125^\circ C$				
P_{GAV}	Average gate power dissipation		$T_j = 125^\circ C$				
T_{stg}	Storage temperature range			-40 to 150	°C		
T_j	Operating junction temperature range			-40 to 125	°C		

Note: xx = voltage/10, y = sensitivity

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6 Amp Sensitive, Standard & Alternistor (High Commutation) Triacs

Electrical Characteristics ($T_j = 25^\circ\text{C}$, unless otherwise specified) — Sensitive Triac (4 Quadrants)

Symbol	Test Conditions	Quadrant		Value			Unit
				Lxx06x5	Lxx06x6	Lxx06x8	
I_{GT}	$V_D = 12V$ $R_L = 60 \Omega$	I - II - III IV	MAX.	5 5	5 10	10 20	mA
V_{GT}	$V_D = 12V$ $R_L = 60 \Omega$	ALL	MAX.			1.3	V
V_{GD}	$V_D = V_{DRM}$ $R_L = 3.3 \text{ k}\Omega$ $T_j = 110^\circ\text{C}$	ALL	MIN.			0.2	V
I_H	$I_T = 100\text{mA}$		MAX.	10	10	20	mA
dv/dt	$V_D = V_{DRM}$ Gate Open $T_j = 100^\circ\text{C}$	400V	TYP.	30	30	40	V/ μ s
		600V		20	20	30	
(dv/dt)c	(di/dt)c = 3.2 A/ms $T_j = 110^\circ\text{C}$		TYP.	1	2	2	V/ μ s
t_{gt}	$I_G = 2 \times I_{GT}$ PW = 15 μ s $I_T = 8.5 \text{ A(pk)}$		TYP.	3.0	3.0	3.2	μ s

Electrical Characteristics ($T_j = 25^\circ\text{C}$, unless otherwise specified) — Standard Triac

Symbol	Test Conditions	Quadrant		Value		Unit
				Qxx06x4	Qxx06x5	
I_{GT}	$V_D = 12V$ $R_L = 60 \Omega$	I - II - III IV	MAX. TYP.	25 50	50 75	mA
V_{GT}	$V_D = 12V$ $R_L = 60 \Omega$	I - II - III	MAX.		1.3	V
V_{GD}	$V_D = V_{DRM}$ $R_L = 3.3 \text{ k}\Omega$ $T_j = 125^\circ\text{C}$	ALL	MIN.		0.2	V
I_H	$I_T = 200\text{mA}$		MAX.	50	50	mA
dv/dt	$V_D = V_{DRM}$ Gate Open $T_j = 125^\circ\text{C}$	400V	MIN.	120		V/ μ s
		600V			100	
		800V			85	
	$V_D = V_{DRM}$ Gate Open $T_j = 100^\circ\text{C}$	1000V			100	
(dv/dt)c	(di/dt)c = 3.2 A/ms $T_j = 125^\circ\text{C}$		TYP.	4	4	V/ μ s
t_{gt}	$I_G = 2 \times I_{GT}$ PW = 15 μ s $I_T = 8.5 \text{ A(pk)}$		TYP.	3.0	3.0	μ s

Electrical Characteristics ($T_j = 25^\circ\text{C}$, unless otherwise specified) — Alternistor Triac (3 Quadrants)

Symbol	Test Conditions	Quadrant		Value		Unit	
				Qxx06xH3	Qxx06xH4		
I_{GT}	$V_D = 12V$ $R_L = 60 \Omega$	I - II - III	MAX.	10	35	mA	
V_{GT}	$V_D = 12V$ $R_L = 60 \Omega$	I - II - III	MAX.		1.3	V	
V_{GD}	$V_D = V_{DRM}$ $R_L = 3.3 \text{ k}\Omega$ $T_j = 125^\circ\text{C}$	I - II - III	MIN.		0.2	V	
I_H	$I_T = 100\text{mA}$		MAX.		15	35	mA
dv/dt	$V_D = V_{DRM}$ Gate Open $T_j = 125^\circ\text{C}$	Qxx06VHy / Qxx06DHy	400V 600V 800V	400V	75	400	V/ μ s
				600V	50	300	
				800V		200	
		Qxx06LHy / Qxx06RHy / Qxx06NHy	400V 600V 800V	400V	75	450	
				600V	50	350	
				800V		250	
	$V_D = V_{DRM}$ Gate Open $T_j = 100^\circ\text{C}$	ALL	1000V			150	
(dv/dt)c	(di/dt)c = 3.2 A/ms $T_j = 125^\circ\text{C}$	MIN.			20	25	V/ μ s
t_{gt}	$I_G = 2 \times I_{GT}$ PW = 15 μ s $I_T = 8.5 \text{ A(pk)}$	TYP.			4.0	4.0	μ s

Note: xx = voltage/10, x = package, y = sensitivity

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Static Characteristics

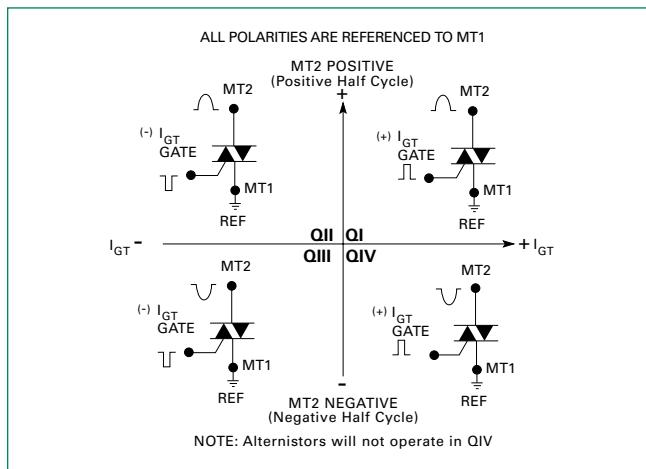
Symbol	Test Conditions				Value	Unit
V_{TM}	$I_{TM} = 11.3A \ t_p = 380 \mu s$				MAX.	1.60 V
I_{DRM} / I_{RRM}	$V_{DRM} = V_{RRM}$	Lxx06xy	$T_J = 25^\circ C$	400 - 600V	MAX.	20 μA
			$T_J = 110^\circ C$	400 - 600V		0.5 mA
		Qxx06xy	$T_J = 25^\circ C$	400 - 1000V		50 μA
			$T_J = 125^\circ C$	400 - 800V		2 mA
		Qxx06xHy	$T_J = 100^\circ C$	1000V		3 mA
			$T_J = 25^\circ C$	400 - 800V		10 μA
				1000V		20 μA
			$T_J = 125^\circ C$	400 - 800V		3 mA
			$T_J = 100^\circ C$	1000V		2 mA

Thermal Resistances

Symbol	Parameter	Value	Unit
$R_{\Theta(J-C)}$	Junction to case (AC)	L/Qxx06Ryy / L/Qxx06Ny	$^\circ C/W$
		L/Qxx06Ly	
		L/Qxx06Vyy / L/Qxx06Dyy	
$R_{\Theta(J-A)}$	Junction to ambient	L/Qxx06Ryy	$^\circ C/W$
		L/Qxx06Ly	
		L/Qxx06Vyy	

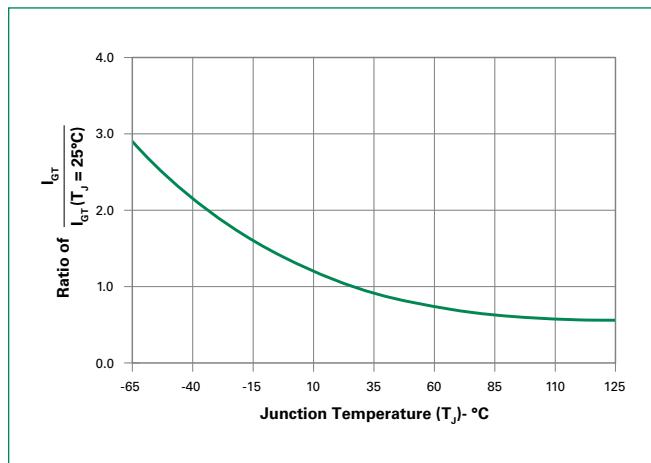
Note: xx = voltage, x = package, y = sensitivity, yy = type & sensitivity

Figure 1: Definition of Quadrants



Note: Alternistors will not operate in QIV

Figure 2: Normalized DC Gate Trigger Current for All Quadrants vs. Junction Temperature



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Figure 3: Normalized DC Holding Current vs. Junction Temperature

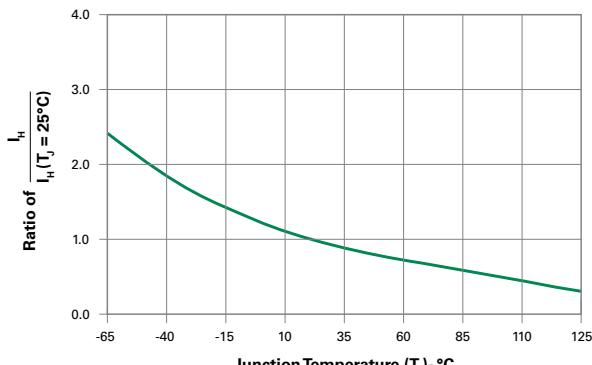


Figure 4: Normalized DC Gate Trigger Voltage for All Quadrants vs. Junction Temperature

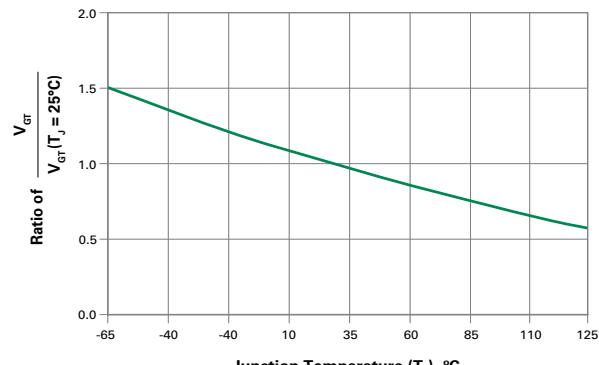


Figure 5: Power Dissipation (Typical) vs. RMS On-State Current

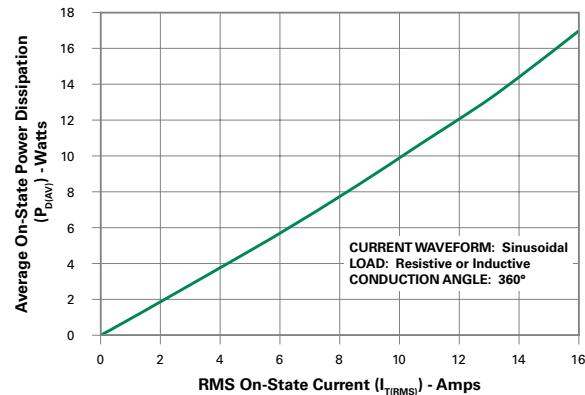


Figure 6: Maximum Allowable Case Temperature vs. On-State Current (Sensitive Triac)

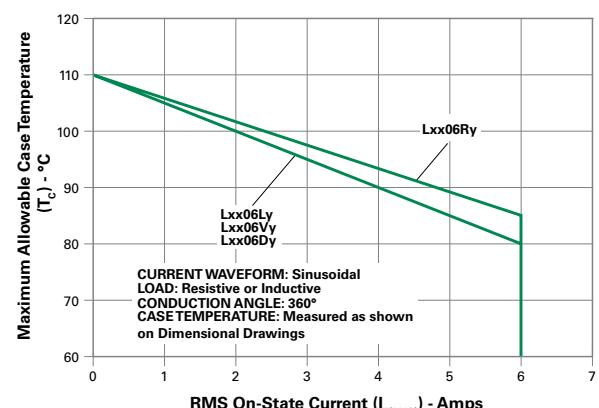


Figure 7: Maximum Allowable Case Temperature vs. On-State Current (Standard Triac)

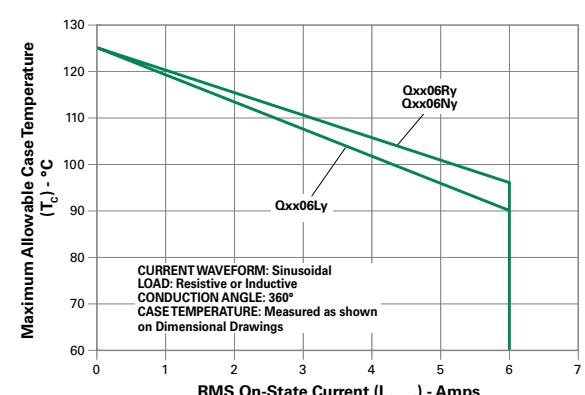
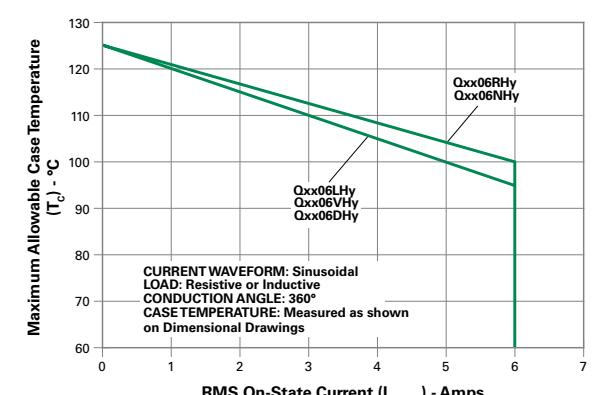


Figure 8: Maximum Allowable Case Temperature vs. On-State Current (Alternistor Triac)



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Figure 9: Maximum Allowable Ambient Temperature vs. On-State Current (Sensitive / Standard Triac)

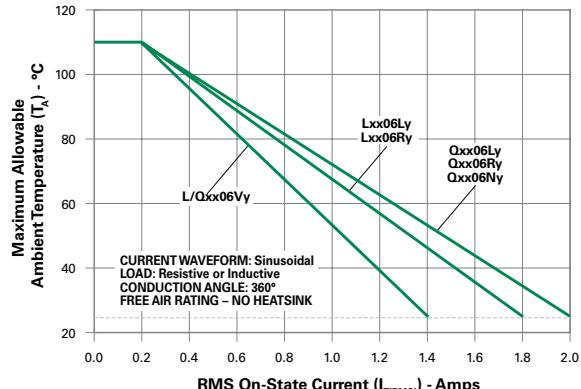


Figure 10: Maximum Allowable Ambient Temperature vs. On-State Current (Alternistor Triac)

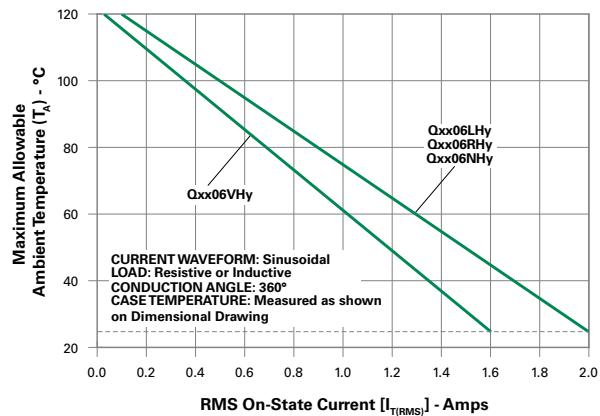
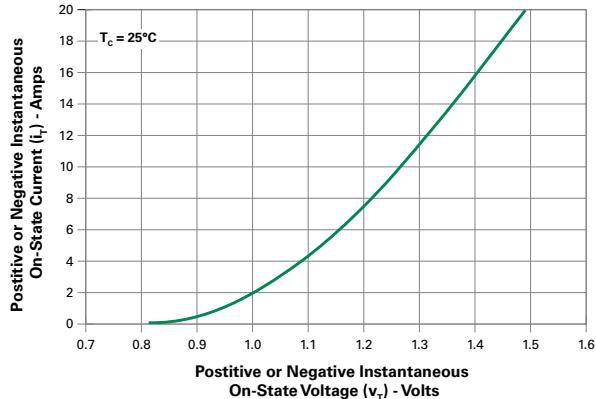


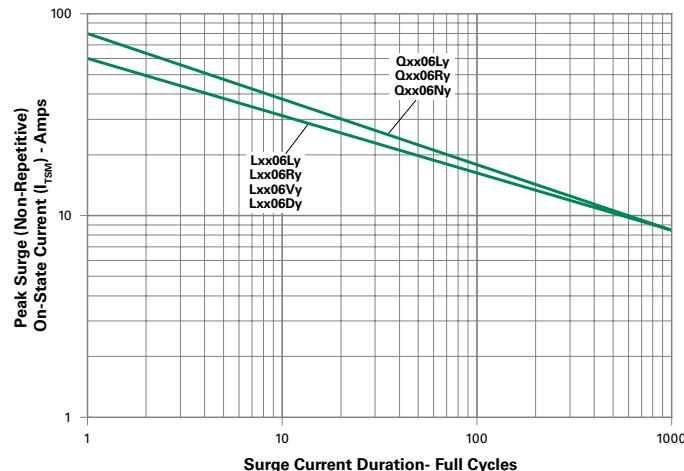
Figure 11: On-State Current vs. On-State Voltage (Typical)



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Figure 12: Surge Peak On-State Current vs. Number of Cycles (Sensitive / Standard Triac)

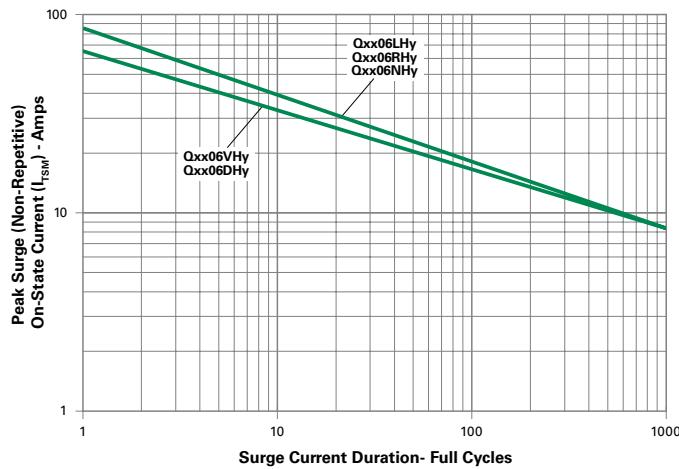


SUPPLY FREQUENCY: 60 Hz Sinusoidal
 LOAD: Resistive
 RMS On-State Current: $I_{T_{(RMS)}}$: Maximum Rated Value at Specified Case Temperature

Notes:

1. Gate control may be lost during and immediately following surge current interval.
2. Overload may not be repeated until junction temperature has returned to steady-state rated value.

Figure 13: Surge Peak On-State Current vs. Number of Cycles (Alternistor Triac)



SUPPLY FREQUENCY: 60 Hz Sinusoidal
 LOAD: Resistive
 RMS On-State Current: $I_{T_{(RMS)}}$: Maximum Rated Value at Specified Case Temperature

Notes:

1. Gate control may be lost during and immediately following surge current interval.
2. Overload may not be repeated until junction temperature has returned to steady-state rated value.

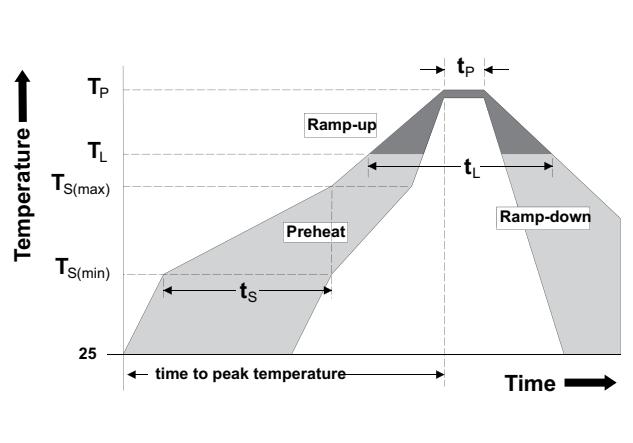
Note: xx = voltage/10, x = package, y = sensitivity.

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Soldering Parameters

Reflow Condition		Pb – Free assembly
Pre Heat	- Temperature Min ($T_{s(min)}$)	150°C
	- Temperature Max ($T_{s(max)}$)	200°C
	- Time (min to max) (t_s)	60 – 120 secs
Average ramp up rate (Liquidus Temp) (T_L) to peak		3°C/second max
$T_{S(max)}$ to T_L - Ramp-up Rate		3°C/second max
Reflow	- Temperature (T_L) (Liquidus)	217°C
	- Temperature (t_L)	60 – 150 seconds
Peak Temperature (T_p)		260 ^{+0/-5} °C
Time within 5°C of actual peak Temperature (t_p)		30 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T_p)		8 minutes Max.
Do not exceed		280°C



Physical Specifications

Terminal Finish	100% Matte Tin-plated
Body Material	UL Recognized compound meeting flammability rating V-0
Terminal Material	Copper Alloy

Design Considerations

Careful selection of the correct components for the application's operating parameters and environment will go a long way toward extending the operating life of the Thyristor. Good design practice should limit the maximum continuous current through the main terminals to 75% of the components rating. Other ways to ensure long life for a power discrete semiconductor are proper heat sinking and selection of voltage ratings for worst case conditions. Overheating, overvoltage (including dv/dt), and surge currents are the main killers of semiconductors. Correct mounting, soldering, and forming of the leads also help protect against component damage.

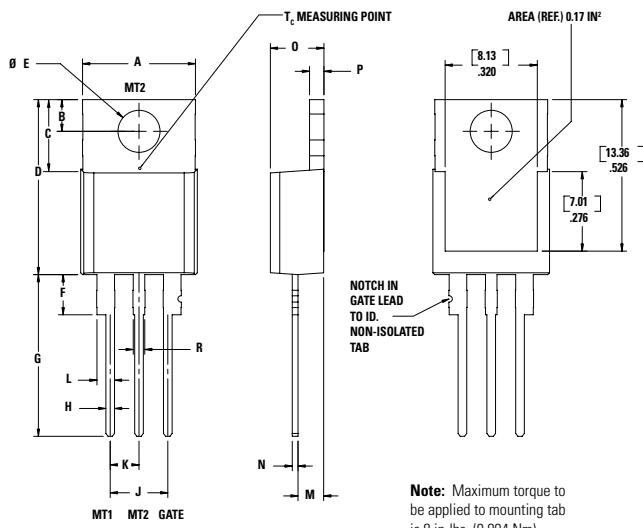
Environmental Specifications

Test	Specifications and Conditions
AC Blocking (V_{DRM})	MIL-STD-750, M-1040, Cond A Applied Peak AC voltage @ 125°C for 1008 hours
Temperature Cycling	MIL-STD-750, M-1051, 100 cycles; -40°C to +150°C; 15-min dwell-time
Temperature/Humidity	EIA / JEDEC, JESD22-A101 1008 hours; 320V - DC: 85°C; 85% rel humidity
High Temp Storage	MIL-STD-750, M-1031, 1008 hours; 150°C
Low-Temp Storage	1008 hours; -40°C
Resistance to Solder Heat	MIL-STD-750 Method 2031
Solderability	ANSI/J-STD-002, category 3, Test A
Lead Bend	MIL-STD-750, M-2036 Cond E

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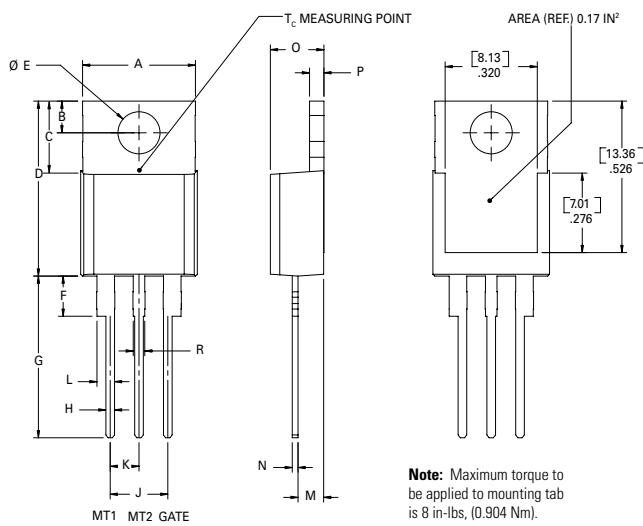
6 Amp Sensitive, Standard & Alternistor (High Commutation) Triacs

Dimensions — TO-220AB (R-Package) — Non-Isolated Mounting Tab Common with Center Lead



Dimension	Inches		Millimeters	
	Min	Max	Min	Max
A	0.380	0.420	9.65	10.67
B	0.105	0.115	2.67	2.92
C	0.230	0.250	5.84	6.35
D	0.590	0.620	14.99	15.75
E	0.142	0.147	3.61	3.73
F	0.110	0.130	2.79	3.30
G	0.540	0.575	13.72	14.61
H	0.025	0.035	0.64	0.89
J	0.195	0.205	4.95	5.21
K	0.095	0.105	2.41	2.67
L	0.060	0.075	1.52	1.91
M	0.085	0.095	2.16	2.41
N	0.018	0.024	0.46	0.61
O	0.178	0.188	4.52	4.78
P	0.045	0.060	1.14	1.52
R	0.038	0.048	0.97	1.22

Dimensions — TO-220AB (L-Package) — Isolated Mounting Tab

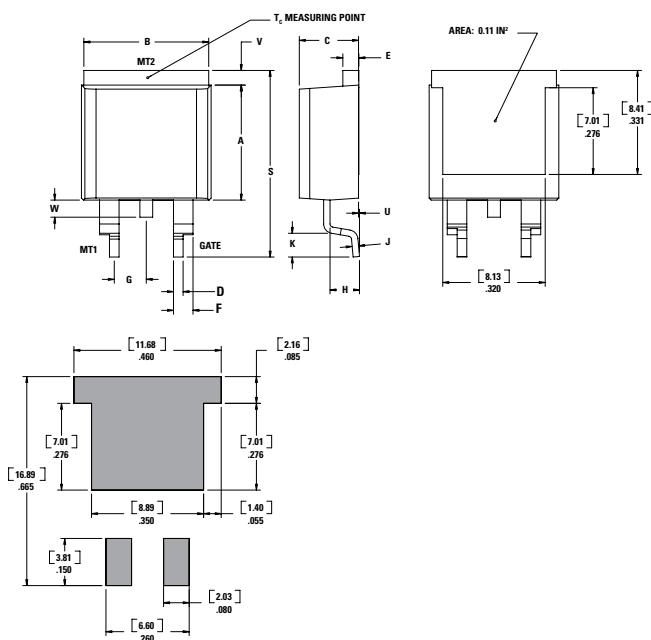


Dimension	Inches		Millimeters	
	Min	Max	Min	Max
A	0.380	0.420	9.65	10.67
B	0.105	0.115	2.67	2.92
C	0.230	0.250	5.84	6.35
D	0.590	0.620	14.99	15.75
E	0.142	0.147	3.61	3.73
F	0.110	0.130	2.79	3.30
G	0.540	0.575	13.72	14.61
H	0.025	0.035	0.64	0.89
J	0.195	0.205	4.95	5.21
K	0.095	0.105	2.41	2.67
L	0.060	0.075	1.52	1.91
M	0.085	0.095	2.16	2.41
N	0.018	0.024	0.46	0.61
O	0.178	0.188	4.52	4.78
P	0.045	0.060	1.14	1.52
R	0.038	0.048	0.97	1.22

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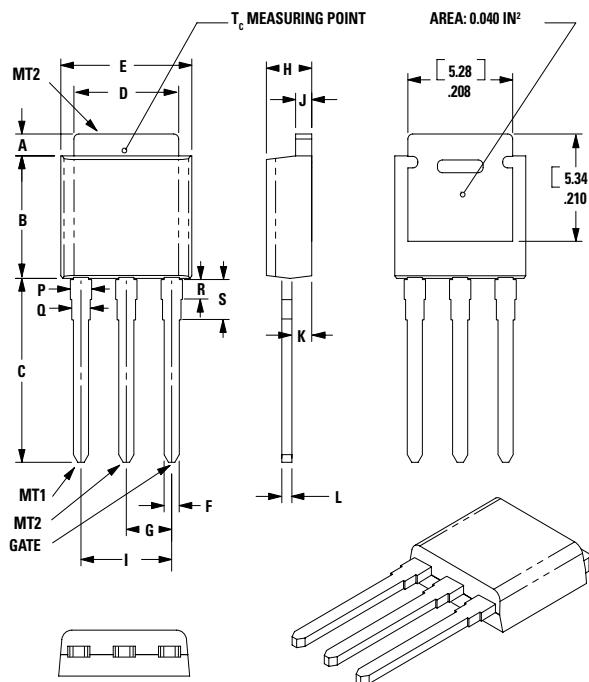
6 Amp Sensitive, Standard & Alternistor (High Commutation) Triacs

Dimensions — TO-263AB (N-Package) — D²-PAK Surface Mount



Dimension	Inches		Millimeters	
	Min	Max	Min	Max
A	0.360	0.370	9.14	9.40
B	0.380	0.420	9.65	10.67
C	0.178	0.188	4.52	4.78
D	0.025	0.035	0.64	0.89
E	0.045	0.060	1.14	1.52
F	0.060	0.075	1.52	1.91
G	0.095	0.105	2.41	2.67
H	0.092	0.102	2.34	2.59
J	0.018	0.024	0.46	0.61
K	0.090	0.110	2.29	2.79
S	0.590	0.625	14.99	15.88
V	0.035	0.045	0.89	1.14
U	0.002	0.010	0.05	0.25
W	0.040	0.070	1.02	1.78

Dimensions — TO-251AA (V-Package) — V-PAK Through Hole

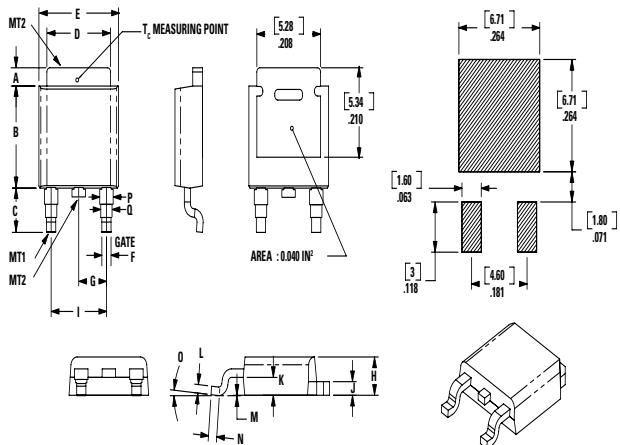


Dimension	Inches			Millimeters		
	Min	Typ	Max	Min	Typ	Max
A	0.037	0.040	0.043	0.94	1.01	1.09
B	0.235	0.242	0.245	5.97	6.15	6.22
C	0.350	0.361	0.375	8.89	9.18	9.53
D	0.205	0.208	0.213	5.21	5.29	5.41
E	0.255	0.262	0.265	6.48	6.66	6.73
F	0.027	0.031	0.033	0.69	0.80	0.84
G	0.087	0.090	0.093	2.21	2.28	2.36
H	0.085	0.092	0.095	2.16	2.34	2.41
I	0.176	0.180	0.184	4.47	4.57	4.67
J	0.018	0.020	0.023	0.46	0.51	0.58
K	0.035	0.037	0.039	0.90	0.95	1.00
L	0.018	0.020	0.023	0.46	0.52	0.58
P	0.042	0.047	0.052	1.06	1.20	1.32
Q	0.034	0.039	0.044	0.86	1.00	1.11
R	0.034	0.039	0.044	0.86	1.00	1.11
S	0.074	0.079	0.084	1.86	2.00	2.11

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Dimensions — TO-252AA (D-Package) — D-PAK Surface mount



Dimension	Inches			Millimeters		
	Min	Typ	Max	Min	Typ	Max
A	0.037	0.040	0.043	0.94	1.01	1.09
B	0.235	0.243	0.245	5.97	6.16	6.22
C	0.106	0.108	0.113	2.69	2.74	2.87
D	0.205	0.208	0.213	5.21	5.29	5.41
E	0.255	0.262	0.265	6.48	6.65	6.73
F	0.027	0.031	0.033	0.69	0.80	0.84
G	0.087	0.090	0.093	2.21	2.28	2.36
H	0.085	0.092	0.095	2.16	2.33	2.41
I	0.176	0.179	0.184	4.47	4.55	4.67
J	0.018	0.020	0.023	0.46	0.51	0.58
K	0.035	0.037	0.039	0.90	0.95	1.00
L	0.018	0.020	0.023	0.46	0.51	0.58
M	0.000	0.000	0.004	0.00	0.00	0.10
N	0.021	0.026	0.027	0.53	0.67	0.69
O	0°	0°	5°	0°	0°	5°
P	0.042	0.047	0.052	1.06	1.20	1.32
Q	0.034	0.039	0.044	0.86	1.00	1.11

Product Selector

Part Number	Voltage				Gate Sensitivity Quadrants		Type	Package
	400V	600V	800V	1000V	I - II - III	IV		
Lxx06L5	X	X	-	-	5 mA	5 mA	Sensitive Triac	TO-220L
Lxx06D5	X	X	-	-	5 mA	5 mA	Sensitive Triac	TO-252 D-PAK
Lxx06R5	X	X	-	-	5mA	5mA	Sensitive Triac	TO-220R
Lxx06V5	X	X	-	-	5 mA	5 mA	Sensitive Triac	TO-251 V-PAK
Lxx06L6	X	X	-	-	5 mA	10 mA	Sensitive Triac	TO-220L
Lxx06D6	X	X	-	-	5 mA	10 mA	Sensitive Triac	TO-252 D-PAK
Lxx06R6	X	X	-	-	5mA	10mA	Sensitive Triac	TO-220R
Lxx06V6	X	X	-	-	5 mA	10 mA	Sensitive Triac	TO-251 V-PAK
Lxx06L8	X	X	-	-	10 mA	20 mA	Sensitive Triac	TO-220L
Lxx06D8	X	X	-	-	10 mA	20 mA	Sensitive Triac	TO-252 D-PAK
Lxx06R8	X	X	-	-	10mA	20mA	Sensitive Triac	TO-220R
Lxx06V8	X	X	-	-	10 mA	20 mA	Sensitive Triac	TO-251 V-PAK
Qxx06VH3	X	X	-	-	10 mA	-	Alternistor Triac	TO-251 V-PAK
Qxx06DH3	X	X	-	-	10 mA	-	Alternistor Triac	TO-252 D-PAK
Qxx06L4	X	-	-	-	25 mA	-	Standard Triac	TO-220L
Qxx06R4	X	-	-	-	25 mA	-	Standard Triac	TO-220R
Qxx06N4	X	-	-	-	25 mA	-	Standard Triac	TO-263 D ² -PAK
Qxx06LH3	X	X	-	-	10mA	-	Alternistor Triac	TO-220L
Qxx06RH3	X	X	-	-	10mA	-	Alternistor Triac	TO-220R
Qxx06LH4	X	X	X	X	35 mA	-	Alternistor Triac	TO-220L
Qxx06RH4	X	X	X	X	35 mA	-	Alternistor Triac	TO-220R
Qxx06VH4	X	X	X	X	35 mA	-	Alternistor Triac	TO-251 V-PAK
Qxx06DH4	X	X	X	X	35 mA	-	Alternistor Triac	TO-252 D-PAK
Qxx06NH4	X	X	X	X	35 mA	-	Alternistor Triac	TO-263 D ² -PAK
Qxx06L5	-	X	X	X	50 mA	-	Standard Triac	TO-220L
Qxx06R5	-	X	X	X	50 mA	-	Standard Triac	TO-220R
Qxx06N5	-	X	X	X	50 mA	-	Standard Triac	TO-263 D ² -PAK

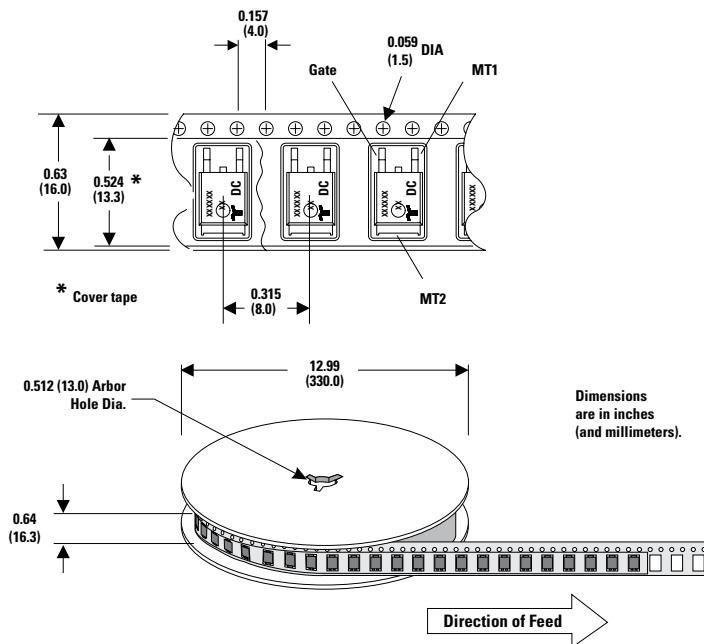
Packing Options

Part Number	Marking	Weight	Packing Mode	Base Quantity
Lxx06L/RyTP	Lxx06L/Ry	2.2 g	Tube Pack	1000 (50 per tube)
Lxx06DyTP	Lxx06Dy	0.3 g	Tube	750 (75 per tube)
Lxx06DyRP	Lxx06Dy	0.3 g	Embossed Carrier	2500
Lxx06VyTP	Lxx06Vy	0.4 g	Tube	750 (75 per tube)
Qxx06L/RyyTP	Qxx06L/Ryy	2.2 g	Tube Pack	1000 (50 per tube)
Qxx06Nyyp	Qxx06Ny	1.6 g	Tube	1000 (50 per tube)
Qxx06Nyyp	Qxx06Ny	1.6 g	Embossed Carrier	500
Qxx06DyyTP	Qxx06Dyy	0.3 g	Tube	750 (75 per tube)
Qxx06DyyRP	Qxx06Dyy	0.3 g	Embossed Carrier	2500
Qxx06VyyTP	Qxx06Vyy	0.4 g	Tube	750 (75 per tube)

Note: xx = voltage/10; yy = sensitivity

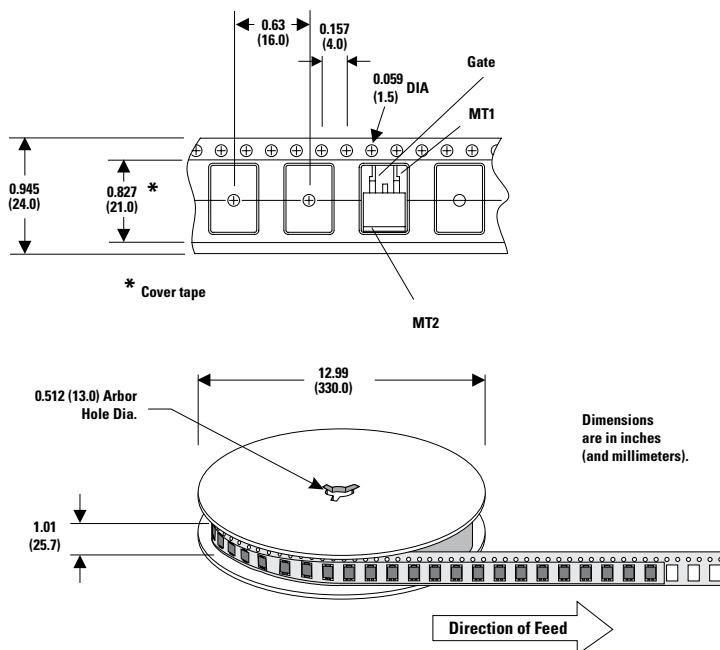
TO-252 Embossed Carrier Reel Pack (RP) Specifications

Meets all EIA-481-2 Standards



TO-263 Embossed Carrier Reel Pack (RP) Specifications

Meets all EIA-481-2 Standards



Part Numbering System

Q 60 06 L H4 56

Component Type
L : Sensitive Triac
Q : Triac or Alternistor

Voltage Rating
40 : 400V
60 : 600V
80 : 800V
K0 : 1000V

Current
06: 6A

Package Type

L : TO-220 Isolated
R : TO-220 Non-Isolated
N : TO-263 (D²PAK)
V : TO-251 (VPAK)
D : TO-252 (DPAK)

Lead from Dimensions
xx : Lead Form Option

Sensitivity & Type

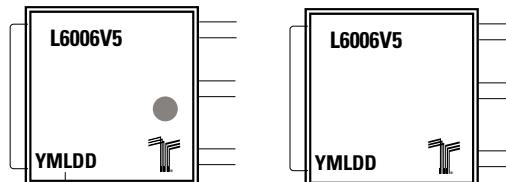
Sensitive Triac:
3 : 3 mA (QI, II, III, IV)
5 : 5 mA (QI, II, III, IV)
6 : 5 mA (QI, II, III)
10 mA (QIV)
8 : 10 mA (QI, II, III)
20 mA (QIV)

Standard Triac:
4 : 25 mA (QI, II, III)
5 : 50 mA (QI, II, III)

Alternistor Triac:
H3 : 10 mA (QI, II, III)
H4 : 35 mA (QI, II, III)

Part Marking System

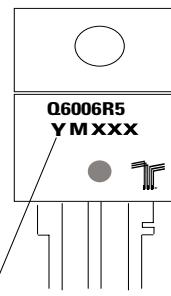
TO-251AA- (V Package)
TO-252AA- (D Package)



Date Code Marking
Y:Year Code
M: Month Code
L: Location Code
DD: Calendar Code

TO-220 AB - (L and R Package)

TO-263 AB - (N Package)



Date Code Marking
Y:Year Code
M: Month Code
XXX: Lot Trace Code

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Littelfuse:

[Q4006DH3](#) [Q4006VH4](#) [Q4006L4](#) [Q4006R4](#) [QK006L5](#) [QK006LH4](#) [L4006L556](#) [Q6004V4](#) [Q6008DH3](#) [Q8006RH4](#)
[Q8006DH4](#) [Q8006DH3](#) [Q6008VH3](#) [L4006L6](#) [L4006L8](#) [L4006L5](#) [QK006R5](#) [L6006L8](#) [L6006L5](#) [L6006L6](#)
[Q4006VH3](#) [Q2006L4](#) [Q4006DH4](#) [Q8006L5](#) [Q8006R5](#) [Q6006VH3](#) [Q2006VH4](#) [L2006L5](#) [L2006L6](#) [L2006L8](#)
[Q2006R4](#) [Q6006DH3](#) [QK006VH4](#) [QK006RH4](#) [Q6006RH4](#) [Q2006RH4](#) [Q4006RH4](#) [Q2006VH3](#) [Q8006VH3](#)
[L6006L656](#) [Q6006L5](#) [Q6006LH4](#) [Q8006LH4](#) [Q6006R5](#) [Q2006LH4](#) [Q4006LH4](#) [Q8006N5TP](#) [QK006N5TP](#)
[QK006N5RP](#) [Q8006N5RP](#) [Q6006N5RP](#) [Q4006VH3TP](#) [Q6006VH3TP](#) [L2006D5RP](#) [L6006D5RP](#) [L4006D5RP](#)
[L4006D5TP](#) [L2006D5TP](#) [L6006D5TP](#) [Q2006VH3TP](#) [Q2006N4RP](#) [Q4006N4RP](#) [Q2006N4TP](#) [Q4006N4TP](#)
[Q6006DH3RP](#) [Q6006DH3TP](#) [Q2006DH3TP](#) [Q2006DH3RP](#) [Q4006DH3RP](#) [Q4006DH3TP](#) [L4006V5TP](#) [L2006V5TP](#)
[L6006V5TP](#) [Q2006VH4TP](#) [L4006D8TP](#) [L2006D8TP](#) [L6006D8TP](#) [L2006D8RP](#) [L6006D8RP](#) [L4006D8RP](#)
[Q4006DH4RP](#) [Q4006DH4TP](#) [QK006NH4TP](#) [QK006NH4RP](#) [L6006D6TP](#) [L2006D6TP](#) [L4006D6TP](#) [L4006D6RP](#)
[L2006D6RP](#) [L6006D6RP](#) [Q8006RH4TP](#) [QK006VH4TP](#) [Q8006VH4TP](#) [Q8006DH4TP](#) [Q8006DH4RP](#) [Q6006LH4TP](#)
[Q4006VH4TP](#) [Q6006VH4TP](#) [Q6006DH4TP](#) [Q6006DH4RP](#)