

### Absolute Maximum Ratings — Sensitive Triac (4 Quadrants)

Symbol	Parameter			Value	Unit
$I_{T(RMS)}$	RMS on-state current (full sine wave)	Lxx08Ly Lxx08Ry / Lxx08Vy / Lxx08Dy	$T_c = 80^\circ\text{C}$ $T_c = 85^\circ\text{C}$	8	A
$I_{TSM}$	Non repetitive surge peak on-state current (full cycle, $T_j$ initial = $25^\circ\text{C}$ )	f = 50 Hz f = 60 Hz	t = 20 ms t = 16.7 ms	65 85	A
$I^2t$	$I^2t$ Value for fusing	$t_p = 8.3$ ms		26.5	A <sup>2</sup> s
di/dt	Critical rate of rise of on-state current $I_G = 50\text{mA}$ with $0.1\mu\text{s}$ rise time	f = 120 Hz	$T_j = 110^\circ\text{C}$	70	A/ $\mu\text{s}$
$I_{GTM}$	Peak gate trigger current	$t_p = 20\mu\text{s}$	$T_j = 110^\circ\text{C}$	4	A
$P_{G(AV)}$	Average gate power dissipation		$T_j = 110^\circ\text{C}$	0.4	W
$T_{stg}$	Storage temperature range			-40 to 150	$^\circ\text{C}$
$T_j$	Operating junction temperature range			-40 to 110	$^\circ\text{C}$

Note: xx = voltage/10, y = sensitivity

### Absolute Maximum Ratings — Standard Triac

Symbol	Parameter			Value	Unit
$I_{T(RMS)}$	RMS on-state current (full sine wave)	Qxx08Ry / Qxx08Ny Qxx08Ly	$T_c = 95^\circ\text{C}$ $T_c = 90^\circ\text{C}$	8	A
$I_{TSM}$	Non repetitive surge peak on-state current (full cycle, $T_j$ initial = $25^\circ\text{C}$ )	f = 50 Hz f = 60 Hz	t = 20 ms t = 16.7 ms	83 100	A
$I^2t$	$I^2t$ Value for fusing	$t_p = 8.3$ ms		41	A <sup>2</sup> s
di/dt	Critical rate of rise of on-state current $I_G = 200\text{mA}$ with $\leq 0.1\mu\text{s}$ rise time	f = 120 Hz	$T_j = 125^\circ\text{C}$	70	A/ $\mu\text{s}$
$I_{GTM}$	Peak gate trigger current	$t_p = 20\mu\text{s}$	$T_j = 125^\circ\text{C}$	4	A
$P_{G(AV)}$	Average gate power dissipation	-	$T_j = 125^\circ\text{C}$	0.5	W
$T_{stg}$	Storage temperature range	-	-	-40 to 150	$^\circ\text{C}$
$T_j$	Operating junction temperature range	-	-	-40 to 125	$^\circ\text{C}$

Note: xx = voltage/10, y = sensitivity

### Absolute Maximum Ratings — Alternistor (3 Quadrants)

Symbol	Parameter	Value	Unit																
$I_{T(RMS)}$	RMS on-state current (full sine wave)	Qxx08LHy Qxx08RHy / Qxx08NHy Qxx08VHy / Qxx08DHy $T_C = 90^\circ\text{C}$ $T_C = 95^\circ\text{C}$	8 A																
$I_{TSM}$	Non repetitive surge peak on-state current (full cycle, $T_J$ initial = $25^\circ\text{C}$ )	<table border="1"> <tr> <td>f = 50 Hz</td> <td>t = 20 ms</td> <td>Qxx08VHy / Qxx08DHy</td> <td>80</td> </tr> <tr> <td></td> <td></td> <td>Qxx08LHy / Qxx08RHy / Qxx08NHy</td> <td>83</td> </tr> <tr> <td>f = 60 Hz</td> <td>t = 16.7 ms</td> <td>Qxx08VHy / Qxx08DHy</td> <td>85</td> </tr> <tr> <td></td> <td></td> <td>Qxx08LHy / Qxx08RHy / Qxx08NHy</td> <td>100</td> </tr> </table>	f = 50 Hz	t = 20 ms	Qxx08VHy / Qxx08DHy	80			Qxx08LHy / Qxx08RHy / Qxx08NHy	83	f = 60 Hz	t = 16.7 ms	Qxx08VHy / Qxx08DHy	85			Qxx08LHy / Qxx08RHy / Qxx08NHy	100	A
f = 50 Hz	t = 20 ms	Qxx08VHy / Qxx08DHy	80																
		Qxx08LHy / Qxx08RHy / Qxx08NHy	83																
f = 60 Hz	t = 16.7 ms	Qxx08VHy / Qxx08DHy	85																
		Qxx08LHy / Qxx08RHy / Qxx08NHy	100																
$I^2t$	$I^2t$ Value for fusing	$t_p = 8.3$ ms	<table border="1"> <tr> <td>Qxx08VHy / Qxx08DHy</td> <td>30</td> </tr> <tr> <td>Qxx08LHy / Qxx08RHy / Qxx08NHy</td> <td>41</td> </tr> </table>	Qxx08VHy / Qxx08DHy	30	Qxx08LHy / Qxx08RHy / Qxx08NHy	41	A <sup>2</sup> s											
Qxx08VHy / Qxx08DHy	30																		
Qxx08LHy / Qxx08RHy / Qxx08NHy	41																		
di/dt	Critical rate of rise of on-state current	f = 120 Hz	$T_J = 125^\circ\text{C}$	70 A/ $\mu\text{s}$															
$I_{GTM}$	Peak gate trigger current	$t_p = 20\mu\text{s}$	$T_J = 125^\circ\text{C}$	<table border="1"> <tr> <td>Qxx08VHy / Qxx08DHy</td> <td>4</td> </tr> <tr> <td>Qxx08LHy / Qxx08RHy / Qxx08NHy</td> <td>4</td> </tr> </table>	Qxx08VHy / Qxx08DHy	4	Qxx08LHy / Qxx08RHy / Qxx08NHy	4	A										
Qxx08VHy / Qxx08DHy	4																		
Qxx08LHy / Qxx08RHy / Qxx08NHy	4																		
$P_{G(AV)}$	Average gate power dissipation	$T_J = 125^\circ\text{C}$	$I_{GT} = 10\text{mA}$ $I_{GT} = 35\text{mA}$	<table border="1"> <tr> <td>Qxx08VHy / Qxx08DHy</td> <td>0.4</td> </tr> <tr> <td>Qxx08LHy / Qxx08RHy / Qxx08NHy</td> <td>0.5</td> </tr> </table>	Qxx08VHy / Qxx08DHy	0.4	Qxx08LHy / Qxx08RHy / Qxx08NHy	0.5	W										
Qxx08VHy / Qxx08DHy	0.4																		
Qxx08LHy / Qxx08RHy / Qxx08NHy	0.5																		
$T_{stg}$	Storage temperature range		-	-40 to 150 $^\circ\text{C}$															
$T_J$	Operating junction temperature range		-	-40 to 125 $^\circ\text{C}$															

Note: xx = voltage/10, y = sensitivity

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

Symbol	Test Conditions	Quadrant	Lxx08x6	Lxx08x8	Unit
$I_{GT}$	$V_D = 12\text{V}$ $R_L = 60\ \Omega$	I – II – III IV	5 10	10 20	mA
$V_{GT}$	$V_D = 12\text{V}$ $R_L = 60\ \Omega$	ALL	1.3		V
$V_{GD}$	$V_D = V_{DRM}$ $R_L = 3.3\ \text{k}\Omega$ $T_J = 110^\circ\text{C}$	ALL	0.2		V
$I_H$	$I_T = 100\text{mA}$		10	20	mA
dv/dt	$V_D = V_{DRM}$ Gate Open $T_J = 100^\circ\text{C}$	400V 600V	30 20	40 30	V/ $\mu\text{s}$
(dv/dt)c	(di/dt)c = 4.3 A/ms $T_J = 110^\circ\text{C}$		2	2	V/ $\mu\text{s}$
$t_{gt}$	$I_G = 100\text{mA}$ PW = 15 $\mu\text{s}$ $I_T = 11.3\ \text{A(pk)}$		3.0	3.2	$\mu\text{s}$

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

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

Symbol	Test Conditions	Quadrant		Qxx08x4	Qxx08x5	Unit
$I_{GT}$	$V_D = 12V$ $R_L = 60\ \Omega$	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
$V_{GD}$	$V_D = V_{DRM}$ $R_L = 3.3\ k\Omega$ $T_J = 125^\circ\text{C}$	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 600V 800V 1000V	MIN.	150 - - -	- 125 100 80	V/ $\mu\text{s}$
(dv/dt)c	(di/dt)c = 4.3 A/ms $T_J = 125^\circ\text{C}$		TYP.	4	4	V/ $\mu\text{s}$
$t_{gt}$	$I_G = 100\text{mA}$ $PW = 15\ \mu\text{s}$ $I_T = 11.3\ \text{A(pk)}$		TYP.	3.0	3.0	$\mu\text{s}$

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

Symbol	Test Conditions	Quadrant		Qxx08xH3	Qxx08xH4	Unit	
$I_{GT}$	$V_D = 12V$ $R_L = 60\ \Omega$	I – II – III	MAX.	10	35	mA	
$V_{GT}$	$V_D = 12V$ $R_L = 60\ \Omega$	I – II – III	MAX.	-	1.3	V	
$V_{GD}$	$V_D = V_{DRM}$ $R_L = 3.3\ k\Omega$ $T_J = 125^\circ\text{C}$	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 $T_J = 125^\circ\text{C}$	Qxx08LHy / Qxx08RH y / Qxx08NH y  Qxx08VHy / Qxx08DH y	MIN.	400V 600V 800V 1000V 400V 600V 800V 1000V	75 50  75 50  150	400 300 200 100 450 350 250 150	V/ $\mu\text{s}$
(dv/dt)c	(di/dt)c = 4.3 A/ms $T_J = 125^\circ\text{C}$		MIN.	-	20	25	V/ $\mu\text{s}$
$t_{gt}$	$I_G = 100\text{mA}$ $PW = 15\ \mu\text{s}$ $I_T = 11.3\ \text{A(pk)}$		TYP.	-	4.0	4.0	$\mu\text{s}$

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

### Static Characteristics

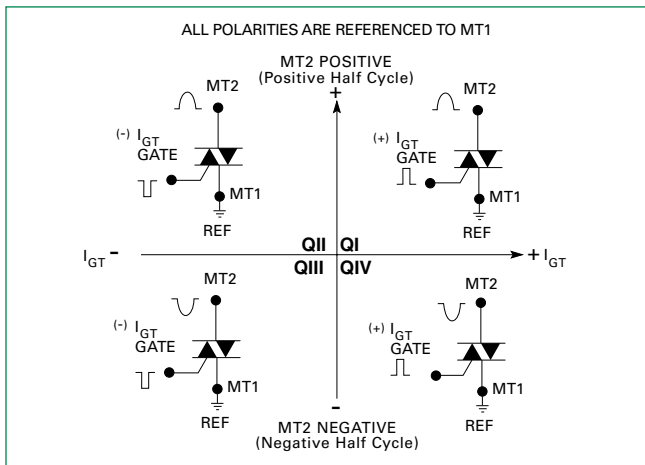
Symbol	Test Conditions				Value	Unit	
$V_{TM}$	$I_{TM} = 11.3A$ $t_p = 380 \mu s$				MAX.	1.60	V
$I_{DRM}$ $I_{RRM}$	$V_{DRM} = V_{RRM}$	Lxx08xy	$T_J = 25^\circ C$	400 - 600V	MAX.	10	$\mu A$
			$T_J = 110^\circ C$	400 - 600V		0.5	mA
			$T_J = 25^\circ C$	400 - 1000V		20	$\mu A$
		Qxx08xy	$T_J = 125^\circ C$	400 - 800V		2	mA
			$T_J = 100^\circ C$	1000V		3	
			$T_J = 25^\circ C$	400 - 800V		10	$\mu A$
Qxx08xHy	$T_J = 25^\circ C$	1000V	20				
	$T_J = 125^\circ C$	400 - 800V	2	mA			
	$T_J = 100^\circ C$	1000V	3				

### Thermal Resistances

Symbol	Parameter	Value	Unit
$R_{\theta(J-C)}$	Junction to case (AC)	L/Qxx08Ryy / L/Qxx08Nyy	1.5
		L/Qxx08Lyy	2.8
		L/Qxx08Vyy	2.1
		L/Qxx08Ryy	45
$R_{\theta(J-A)}$	Junction to ambient	L/Qxx08Lyy	50
		L/Qxx08Vyy	64

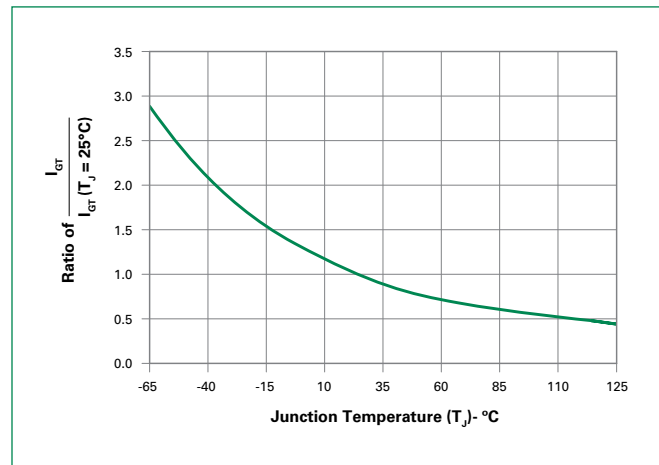
Note: xx = voltage/10, x = package, y = sensitivity, yy = type & sensitivity

Figure 1: Definition of Quadrants

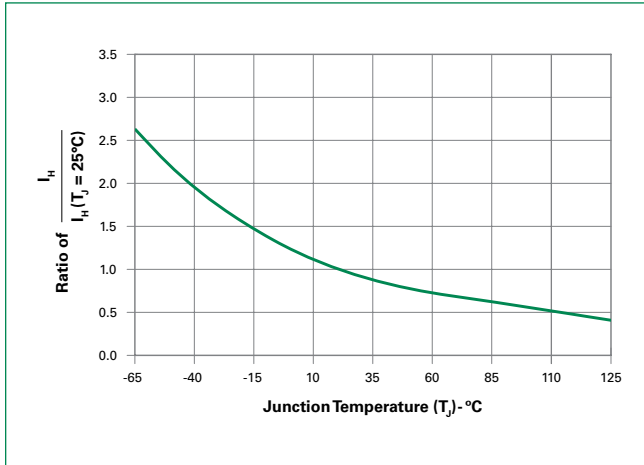


Note: Alternistors will not operate in QIV

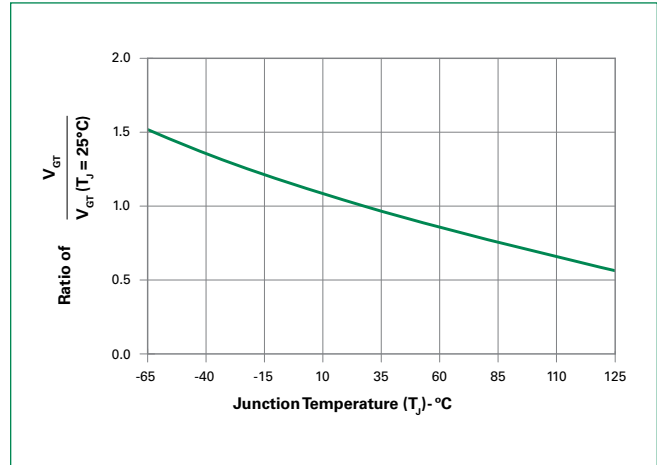
Figure 2: Normalized DC Gate Trigger Current for All Quadrants vs. Junction Temperature



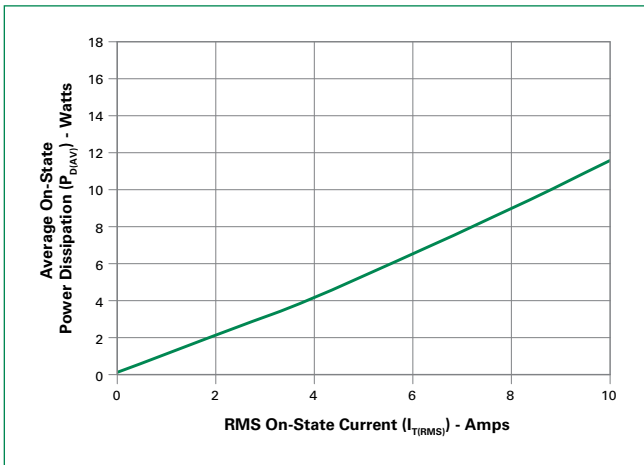
**Figure 3: Normalized DC Holding Current vs. Junction Temperature**



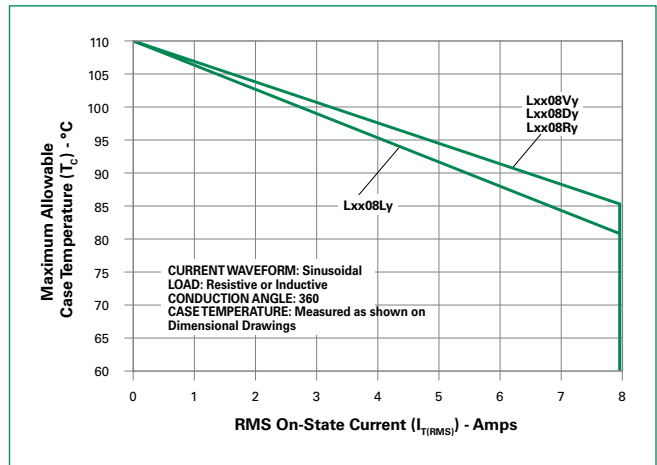
**Figure 4: Normalized DC Gate Trigger Voltage for All Quadrants vs. Junction Temperature**



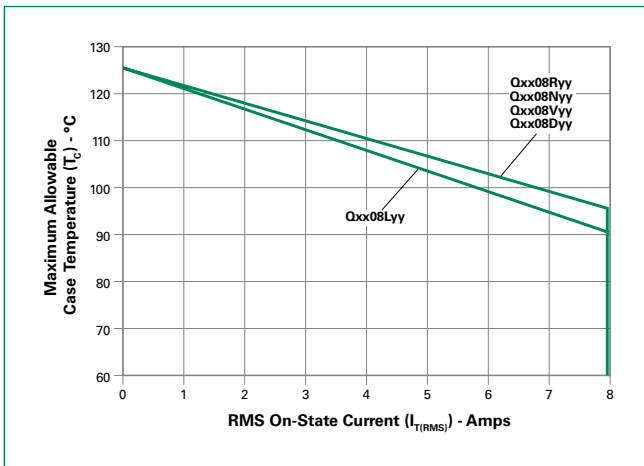
**Figure 5: Power Dissipation (Typical) vs. RMS On-State Current**



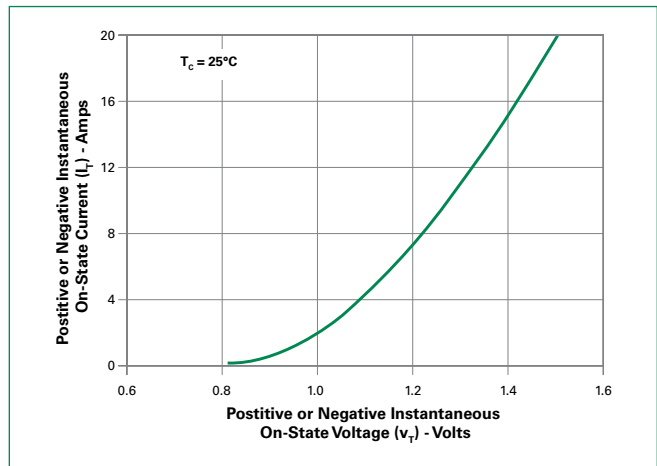
**Figure 6: Maximum Allowable Case Temperature vs. On-State Current (Sensitive Triac)**



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

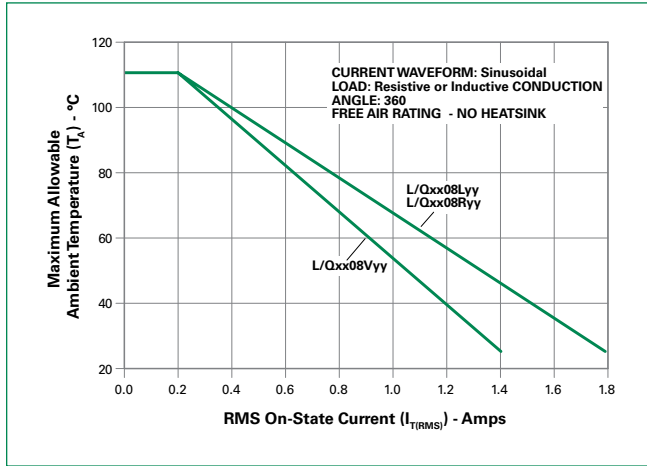


**Figure 8: On-State Current vs. On-State Voltage (Typical)**

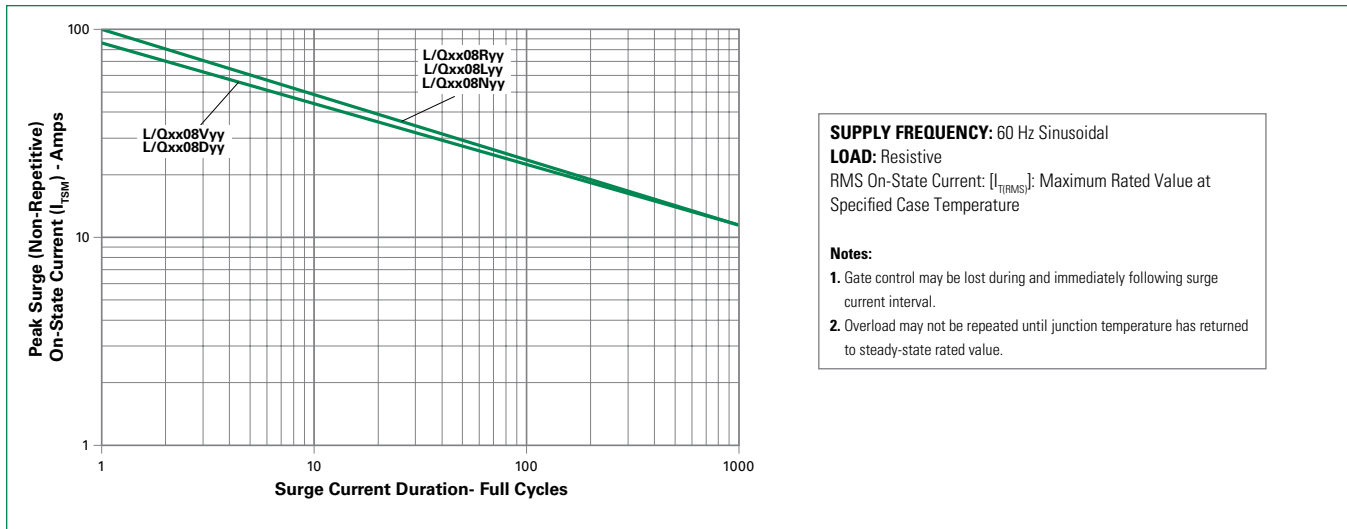


Note: xx = voltage/10, x = package, yy = type & sensitivity

**Figure 9: Maximum Allowable Ambient Temperature vs. On-State Current**



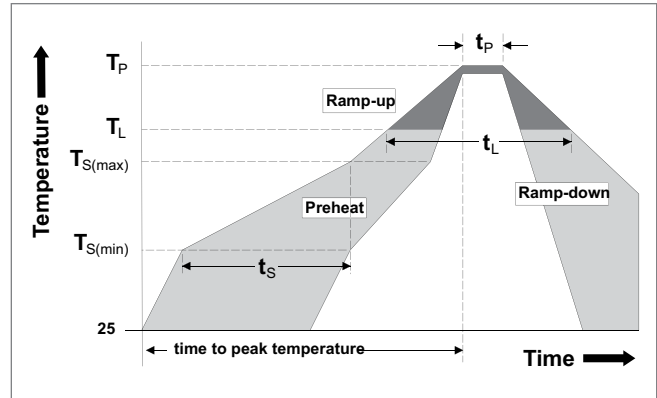
**Figure 10: Surge Peak On-State Current vs. Number of Cycles**



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

### 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 – 180 secs
Average ramp up rate (Liquidus Temp) ( $T_L$ ) to peak		5°C/second max
$T_{s(max)}$ to $T_L$ - Ramp-up Rate		5°C/second max
Reflow	- Temperature ( $T_L$ ) (Liquidus)	217°C
	- Temperature ( $t_L$ )	60 – 150 seconds
Peak Temperature ( $T_p$ )		260 <sup>+0/-5</sup> °C
Time within 5°C of actual peak Temperature ( $t_p$ )		20 – 40 seconds
Ramp-down Rate		5°C/second max
Time 25°C to peak Temperature ( $T_p$ )		8 minutes Max.
Do not exceed		280°C



### Physical Specifications

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

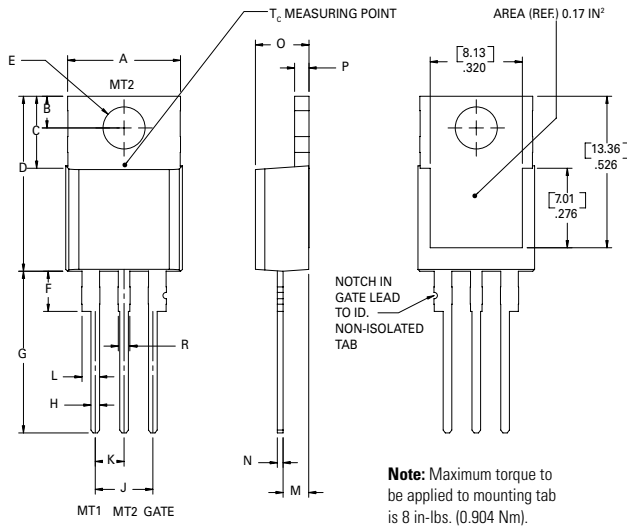
### Design Considerations

Careful selection of the correct component 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 component 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

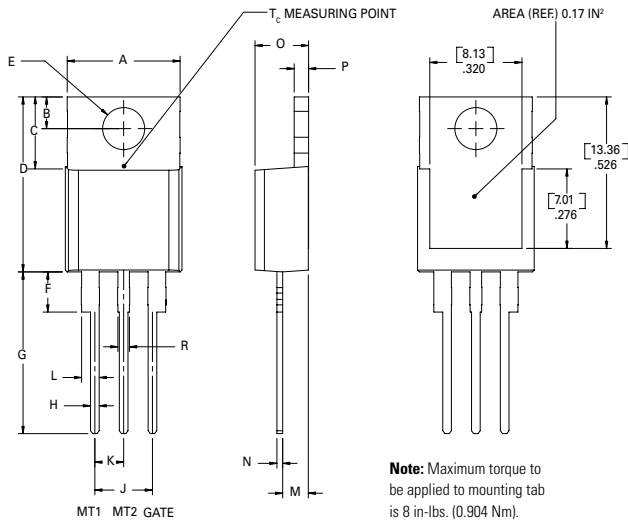
Test	Specifications and Conditions
<b>AC Blocking (<math>V_{DRM}</math>)</b>	MIL-STD-750, M-1040, Cond A Applied Peak AC voltage @ 125°C for 1008 hours
<b>Temperature Cycling</b>	MIL-STD-750, M-1051, 100 cycles; -40°C to +150°C; 15-min dwell-time
<b>Temperature/Humidity</b>	EIA / JEDEC, JESD22-A101 1008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

### 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

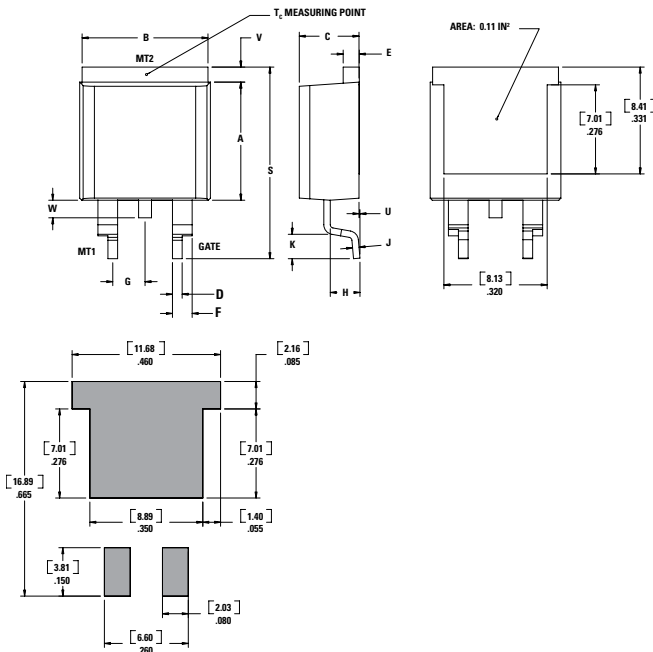
### Dimensions — TO-220AB (L-Package) — Isolated Mounting Tab



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

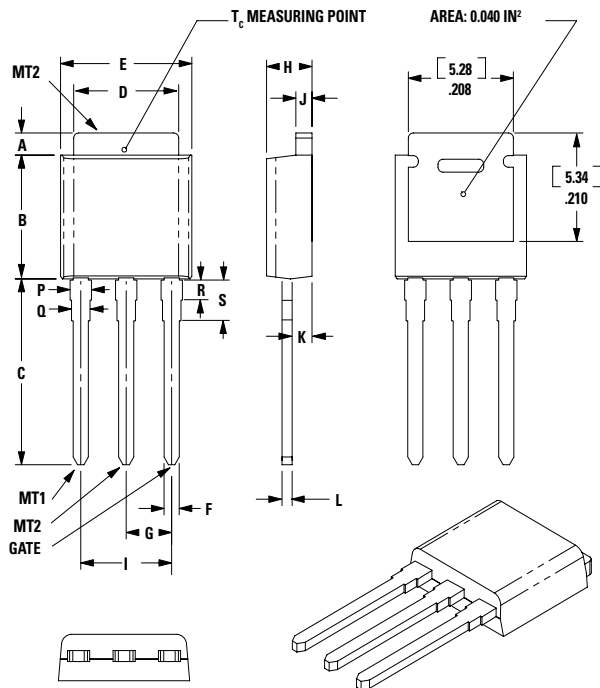


### Dimensions — TO-263AB (N-Package) — D<sup>2</sup>-PAK Surface Mount



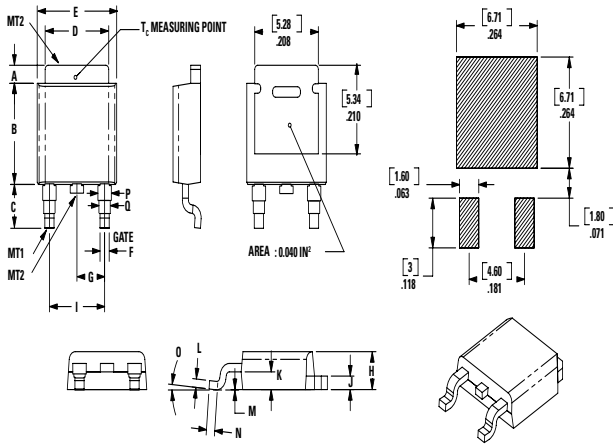
Dimension	Inches		Millimeters	
	Min	Max	Min	Max
A	0.360	0.370	9.14	9.40
B	0.380	0.420	9.65	10.67
C	0.178	0.188	4.52	4.78
D	0.025	0.035	0.64	0.89
E	0.045	0.060	1.14	1.52
F	0.060	0.075	1.52	1.91
G	0.095	0.105	2.41	2.67
H	0.092	0.102	2.34	2.59
J	0.018	0.024	0.46	0.61
K	0.090	0.110	2.29	2.79
S	0.590	0.625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

### 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 (xx)				Gate Sensitivity Quadrants		Type	Package
	400V	600V	800V	1000V	I – II – III	IV		
Lxx08L6	X	X	-	-	5 mA	10 mA	Sensitive Triac	TO-220L
Lxx08D6	X	X	-	-	5 mA	10 mA	Sensitive Triac	TO-252 D-PAK
Lxx08R6	X	X	-	-	5mA	10mA	Sensitive Triac	TO-220R
Lxx08V6	X	X	-	-	5 mA	10 mA	Sensitive Triac	TO-251 V-PAK
Lxx08L8	X	X	-	-	10 mA	20 mA	Sensitive Triac	TO-220L
Lxx08D8	X	X	-	-	10 mA	20 mA	Sensitive Triac	TO-252 D-PAK
Lxx08R8	X	X	-	-	10mA	20mA	Sensitive Triac	TO-220R
Lxx08V8	X	X	-	-	10 mA	20 mA	Sensitive Triac	TO-251 V-PAK
Qxx08NH3	X	X	-	-	10mA	-	Alternistor Triac	TO-263 D <sup>2</sup> -PAK
Qxx08RH3	X	X	-	-	10 mA	-	Alternistor Triac	TO-220R
Qxx08VH3	X	X	-	-	10 mA	-	Alternistor Triac	TO-251 V-PAK
Qxx08DH3	X	X	-	-	10 mA	-	Alternistor Triac	TO-252 D-PAK
Qxx08L4	X	-	-	-	25 mA	-	Triac	TO-220L
Qxx08R4	X	-	-	-	25 mA	-	Triac	TO-220R
Qxx08N4	X	-	-	-	25 mA	-	Triac	TO-263 D <sup>2</sup> -PAK
Qxx08LH4	X	X	X	X	35 mA	-	Alternistor Triac	TO-220L
Qxx08RH4	X	X	X	X	35 mA	-	Alternistor Triac	TO-220R
Qxx08VH4	X	X	X	X	35 mA	-	Alternistor Triac	TO-251 V-PAK
Qxx08DH4	X	X	X	X	35 mA	-	Alternistor Triac	TO-252 D-PAK
Qxx08NH4	X	X	X	X	35 mA	-	Alternistor Triac	TO-263 D <sup>2</sup> -PAK
Qxx08L5	-	X	X	X	50 mA	-	Triac	TO-220L
Qxx08R5	-	X	X	X	50 mA	-	Triac	TO-220R
Qxx08N5	-	X	X	X	50 mA	-	Triac	TO-263 D <sup>2</sup> -PAK

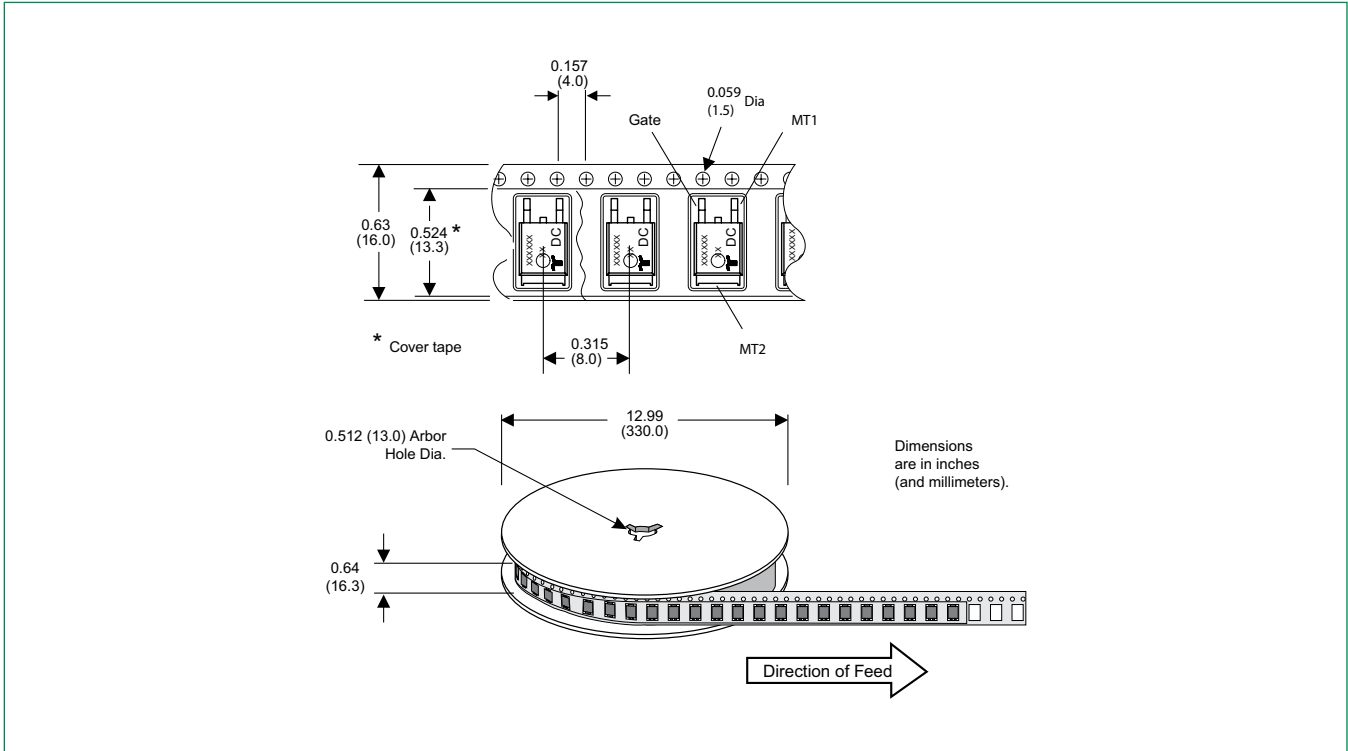
### Packing Options

Part Number	Marking	Weight	Packing Mode	Base Quantity
L/Qxx08L/RyyTP	L/Qxx08L/Ryy	2.2 g	Tube Pack	1000 (50 per tube)
Qxx08NyyTP	Qxx08Nyy	1.6 g	Tube	1000 (50 per tube)
Qxx08NyyRP	Qxx08Nyy	1.6 g	Embossed Carrier	500
L/Qxx08DyyTP	L/Qxx08Dyy	0.3 g	Tube	750 (75 per tube)
L/Qxx08DyyRP	L/Qxx08Dyy	0.3 g	Embossed Carrier	2500
L/Qxx08VyyTP	L/Qxx08Vyy	0.4 g	Tube	750 (75 per tube)

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

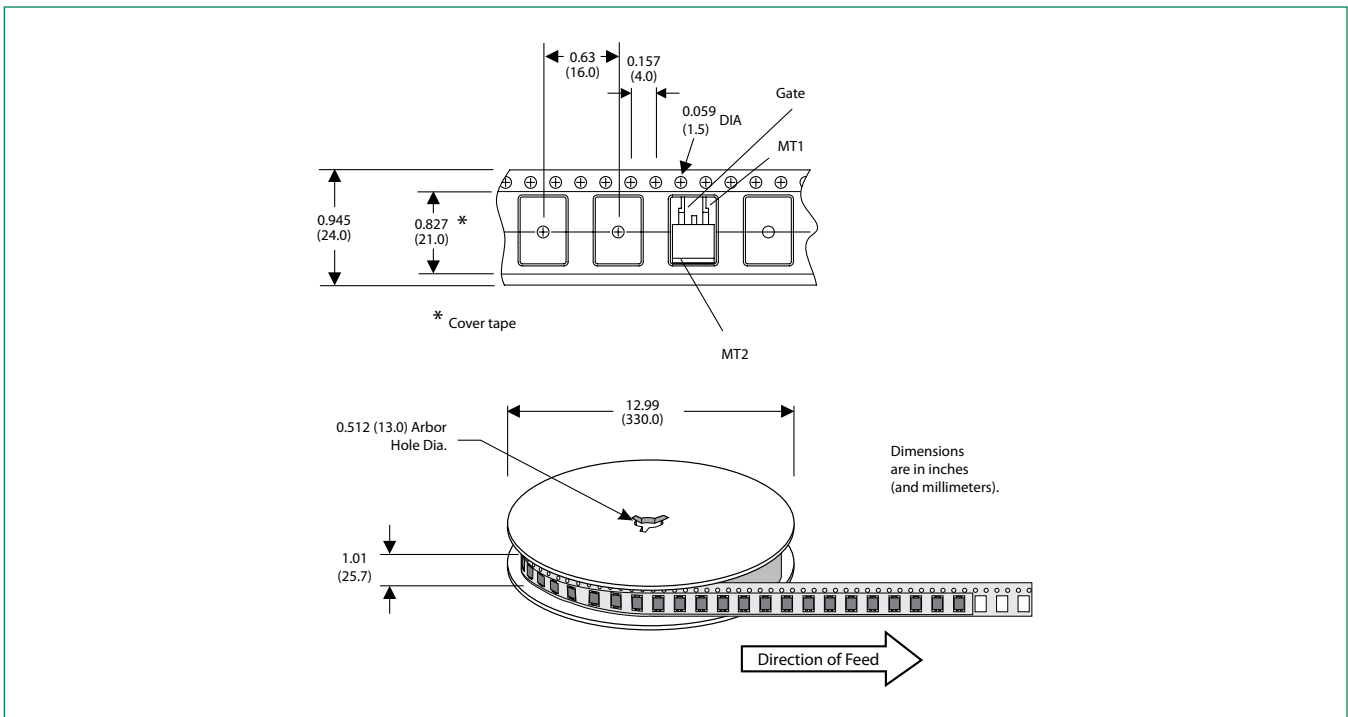
**TO-252 Embossed Carrier Reel Pack (RP) Specifications**

Meets all EIA-481-2 Standards

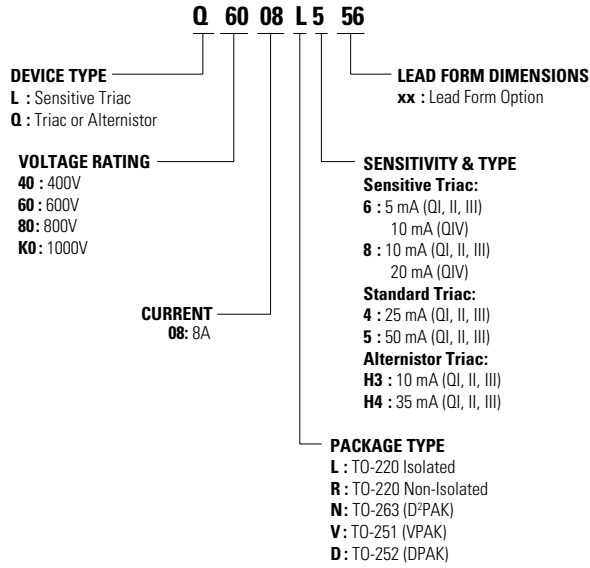


**TO-263 Embossed Carrier Reel Pack (RP) Specifications**

Meets all EIA-481-2 Standards

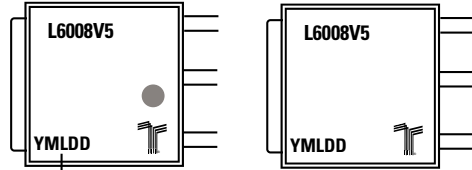


### Part Numbering System



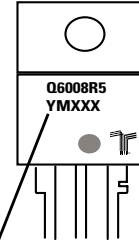
### Part Marking System

**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:

[L4008L8](#) [L6008L8](#) [Q2008R4](#) [Q2008L4](#) [Q4008L4](#) [Q4008LH4](#) [Q2008LH4](#) [Q6008LH4](#) [Q8008R5](#) [Q6008LH453](#)  
[Q6008VH4](#) [Q6008LH458](#) [Q8008DH3](#) [Q4008L455](#) [Q4008L458](#) [Q8008LH4](#) [Q4008DH4](#) [Q6008DH4](#) [Q4008DH3](#)  
[QK008DH3](#) [QK008DH4](#) [Q8008L5](#) [Q6008R5](#) [Q6008L5](#) [QK008LH4](#) [QK008R5](#) [Q4008RH467](#) [L4008L6](#) [Q4008VH3](#)  
[Q4008R4](#) [QK008L5](#) [L6008L655](#) [Q8008VH3](#) [Q6008R559](#) [L4008L656](#) [L2008L6](#) [L2008L8](#) [Q4008VH4](#) [Q6008L559](#)  
[Q6008L555](#) [QK008VH4](#) [QK008VH3](#) [L6008L6](#) [QK008RH4](#) [Q4008RH4](#) [Q6008RH4](#) [Q2008RH4](#) [Q6008L556](#)  
[Q4008R456](#) [Q8008RH4](#) [L4008D8RP](#) [L2008D8RP](#) [L6008D8RP](#) [L4008D8TP](#) [L2008D8TP](#) [L6008D8TP](#) [L4008L8TP](#)  
[L6008V8TP](#) [L2008V8TP](#) [L4008V8TP](#) [L4008D6TP](#) [L6008D6TP](#) [L2008D6TP](#) [L6008D6RP](#) [L2008D6RP](#) [L4008D6RP](#)  
[L6008L6TP](#) [Q4008L4TP](#) [L6008L8TP](#) [QK008N5RP](#) [Q6008N5RP](#) [Q8008N5RP](#) [QK008N5TP](#) [Q6008N5TP](#)  
[Q8008N5TP](#) [Q8008NH4TP](#) [Q4008NH4TP](#) [Q4008NH4RP](#) [QK008NH4TP](#) [QK008NH4RP](#) [Q4008DH4TP](#)  
[Q4008DH4RP](#) [Q6008DH4TP](#) [Q6008DH4RP](#) [Q8008DH4RP](#) [Q8008DH4TP](#) [Q4008N4TP](#) [Q2008N4TP](#) [Q4008N4RP](#)  
[Q2008N4RP](#) [Q2008DH4TP](#) [Q2008DH4RP](#) [Q8008L5TP](#) [Q4008VH3TP](#) [Q6008VH3TP](#) [Q2008VH3TP](#) [Q2008VH4TP](#)  
[Q6008VH4TP](#) [Q4008VH4TP](#) [Q4008DH3RP](#)