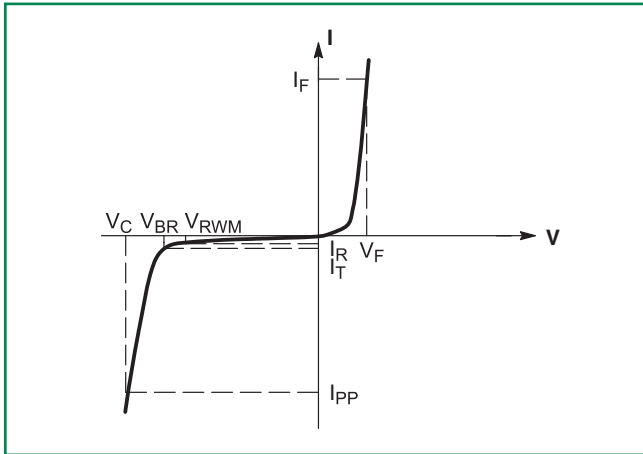


I-V Curve Characteristics (TA = 25 °C unless otherwise noted, VF = 3.5V Max. @ IF (Note 3) = 100 A)



Symbol	Parameter
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
V_{RWM}	Working Peak Reverse Voltage
I_R	Maximum Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
I_F	Forward Current
V_F	Forward Voltage @ I_F

Ratings and Characteristic Curves

Figure 1. Pulse Rating Curve

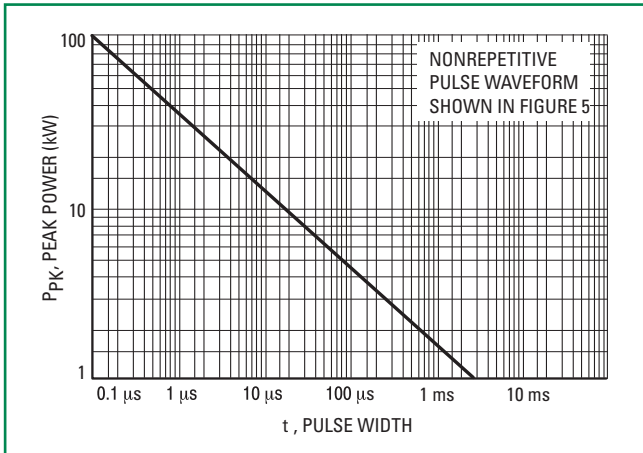


Figure 2. Pulse Derating Curve

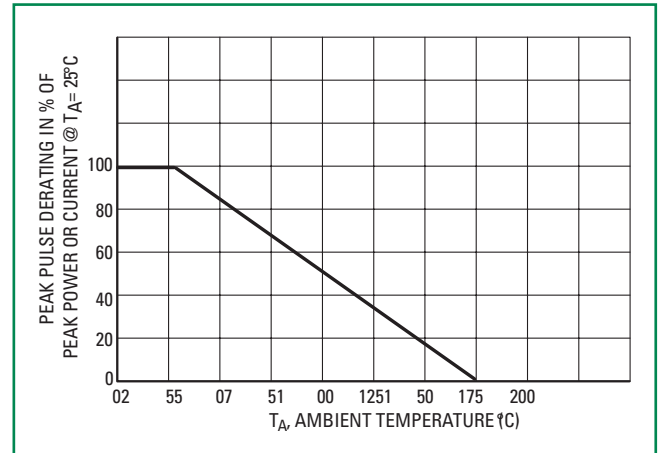


Figure 3. Capacitance versus Breakdown Voltage

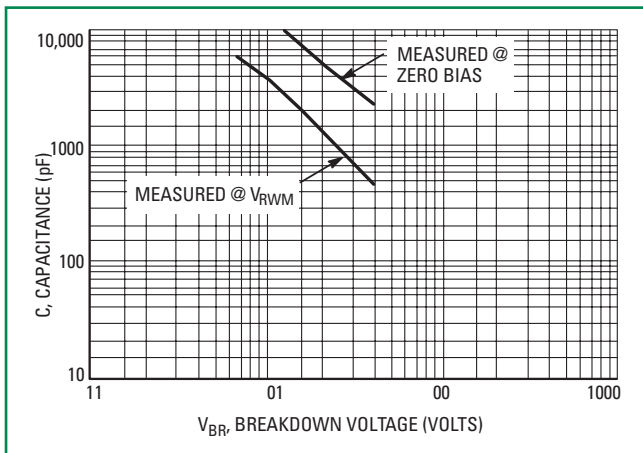


Figure 4. Steady State Power Derating

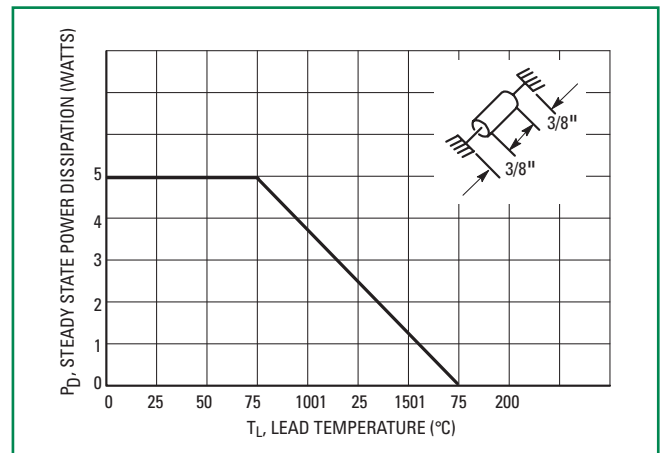


Figure 5. Pulse Waveform

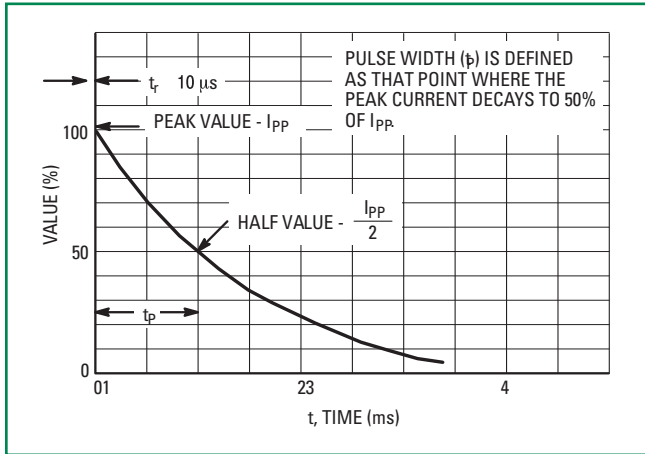


Figure 6. Dynamic Impedance

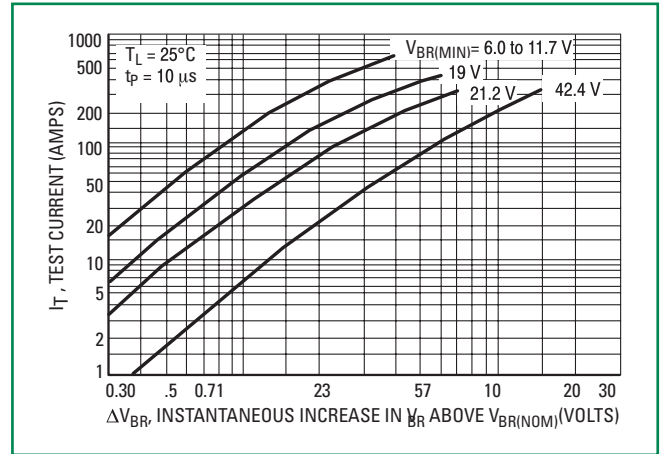
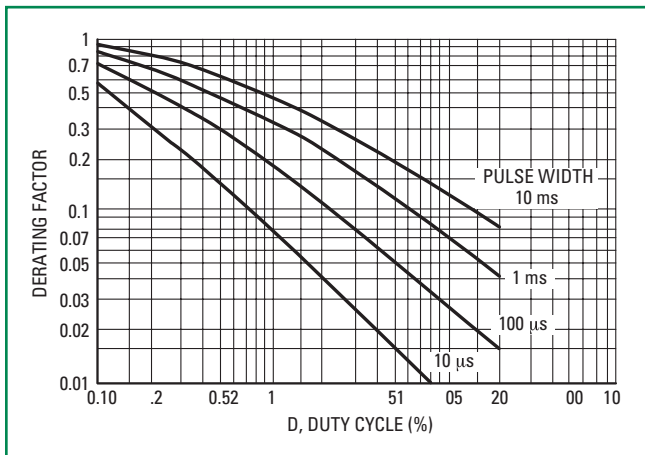


Figure 7. Typical Derating Factor for Duty Cycle



Electrical Characteristics (TA = 25 ° C unless otherwise noted, VF = 3.5 V Max. @ IF (Note 3) = 53 A)

JEDEC Device† (ON Device)	Device Marking	V _{RWM} (Note 4)	I _R @ V _{RWM}	Breakdown Voltage				V _C @ I _{PP} (Volts) (Note 6)		V _C (Volts) (Note 6)		CV _{BR} (mV/°C)
				V _{BR} (V) (Note 5)			@ I _T	V _C	I _{PP}	@ I _{PP} = 1 A	@ I _{PP} = 10 A	
				Min	Nom	Max	(mA)	(Volts)	(A)			
1N6373, G	1N6373	5.0	300	6.0	-	-	1.0	9.4	160	7.1	7.5	4.0
1N6374, G	1N6374	8.0	25	9.4	-	-	10	15	100	11.3	11.5	8.0
1N6375, G	1N6375	10	2.0	11.7	-	-	1.0	16.7	90	13.7	14.1	12
1N6376, G	1N6376	12	2.0	14.1	-	-	1.0	21.2	70	16.1	16.5	14
1N6377, G	1N6377	15	2.0	17.6	-	-	1.0	25	60	20.1	20.6	18
1N6380, G	1N6380	36	2.0	42.4	-	-	1.0	65.2	23	50.6	54.3	50
1N6381, G	1N6381	45	2.0	52.9	-	-	1.0	78.9	19	63.3	70	60
ICTE-5RLG	ICTE-5	5.0	300	6.0	-	-	1.0	9.4	160	7.1	7.5	4.0
ICTE-10RLG	ICTE-10	10	2.0	11.7	-	-	1.0	16.7	90	13.7	14.1	8.0
ICTE-12RLG	ICTE-12	12	2.0	14.1	-	-	1.0	21.2	70	16.1	16.5	12
ICTE-15RLG	ICTE-15	15	2.0	17.6	-	-	1.0	25	60	20.1	20.6	14
ICTE-18, G	ICTE-18	18	2.0	21.2	-	-	1.0	30	50	24.2	25.2	18
ICTE-36RLG	ICTE-36	36	2.0	42.4	-	-	1.0	65.2	23	50.6	54.3	26

3. Square waveform, PW = 8.3 ms, non-repetitive duty cycle.

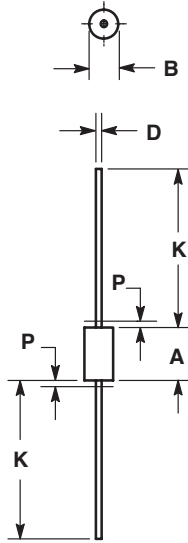
4. A transient suppressor is normally selected according to the maximum working peak reverse voltage (V_{RWM}), which should be equal to or greater than the DC or continuous peak operating voltage level.

5. V_{BR} measured at pulse test current I_T at an ambient temperature of 25°C and minimum voltage in V_{BR} is to be controlled.

6. Surge current waveform per Figure 5 and derate per Figures 1 and 2.

†The "G" suffix indicates Pb-Free package or Pb-Free packages are available.

Dimensions

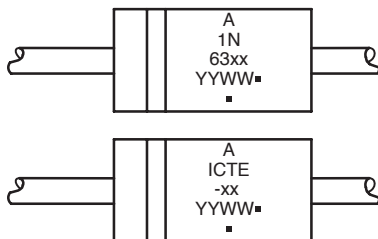


Dim	Inches		Millimeters	
	Min	Max	Min	Max
A	0.335	0.374	8.50	9.50
B	0.189	0.209	4.80	5.30
D	0.038	0.042	0.96	1.06
K	1.000	—	25.40	—
P	—	0.050	—	1.27

NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: INCH.
3. LEAD FINISH AND DIAMETER UNCONTROLLED IN DIMENSION P.
4. 041A-01 THRU 041A-03 OBSOLETE, NEW STANDARD 041A-04.

Part Marking System



- A= Assembly Location
 - 1N63xx= JEDEC Device Code
 - ICTE-xx = ON Device Code
 - YY = Year
 - WW = Work Week
 - = Pb-Free Package
- (Note: Microdot may be in either location)

ORDERING INFORMATION

Device	Package	Shipping†
1N63xx, G	Axial Lead (Pb-Free)	500 Units/Box
1N63xxRL4, G	Axial Lead (Pb-Free)	1500/Tape & Reel
ICTE-xx, G	Axial Lead (Pb-Free)	500 Units/Box
ICTE-xxRL4, G	Axial Lead (Pb-Free)	1500/Tape & Reel

Flow/Wave Soldering (Solder Dipping)

Peak Temperature :	260°C
Dipping Time :	1/16" from the case for 10 seconds

Physical Specifications

Case	Void-free, transfer-molded, thermosetting plastic
Leads	Modified L-Bend providing more contact area to bond pads
Finish	All external surfaces are corrosion resistant and leads are readily solderable
Mounting Position	Any

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at: www.littelfuse.com/disclaimer-electronics.

Mouser Electronics

Authorized Distributor

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

[Littelfuse:](#)

[1N6373RL4G](#) [1N6380G](#) [1N6377G](#) [1N6376RL4G](#) [1N6377RL4G](#) [1N6373G](#) [1N6380RL4G](#) [1N6376G](#)