

MECHANICAL and PACKAGING

- CASE: Hermetically sealed glass package.
- TERMINALS: Tin/lead plated or RoHS compliant matte-tin (on commercial grade only) over copper clad steel. Solderable per MIL-STD-750, method 2026.
- POLARITY: Cathode indicated by band.
- MARKING: Part number.
- TAPE & REEL option: Standard per EIA-296. Consult factory for quantities.
- WEIGHT: 0.2 grams.
- See Package Dimensions on last page.

PART NOMENCLATURE



(see <u>Electrical Characteristics</u> table)

SYMBOLS & DEFINITIONS						
Symbol	Definition					
I _R	Reverse Current: The maximum reverse (leakage) current that will flow at the specified voltage and temperature.					
lo	Average Rectified Forward Current: The output current averaged over a full cycle with a 50 Hz or 60 Hz sine-wave input and a 180 degree conduction angle.					
t _{rr}	Reverse Recovery Time: The time interval between the instant the current passes through zero when changing from the forward direction to the reverse direction and a specified decay point after a peak reverse current occurs.					
V _F	Forward Voltage: The forward voltage the device will exhibit at a specified current (typically shown as maximum value).					
V _R	Reverse Voltage: The reverse voltage dc value, no alternating component.					
V _{RWM}	Working Peak Reverse Voltage: The maximum peak voltage that can be applied over the operating temperature range excluding all transient voltages (ref JESD282-B). Also sometimes known as PIV.					

ELECTRICAL CHARACTERISTICS @ 25 °C unless otherwise noted

FORWARD VOLTAGE V _{F1} @ I _F =10 mA	FORWARD VOLTAGE V _{F2} @ I _F =100 mA	REVERSE RECOVERY TIME t _{rr} (Note 1)	FORWARD RECOVERY TIME t _{fr} (Note 2)	REVERSE CURRENT I _{R1} @ 20 V	REVERSE CURRENT I _{R2} @ 75 V	REVERSE CURRENT I _{R3} @ 20 V T _A =150°C	REVERSE CURRENT I _{R4} @ 75 V T _A =150°C	CAPACI- TANCE C (Note 3)	CAPACI- TANCE C (Note 4)
v	v	ns	ns	nA	μA	μA	μΑ	pF	pF
0.8	1.2	5	20	25	0.5	35	75	4.0	2.8

NOTE 1: $I_F = I_R = 10$ mA, $R_L = 100$ Ohms. **NOTE 2:** $I_F = 50$ mA. **NOTE 3:** $V_R = 0 V$, f = 1 MHz, $V_{SIG} = 50 mV$ (pk to pk). **NOTE 4:** $V_R = 1.5V$, f = 1 MHz, $V_{SIG} = 50 mV$ (pk to pk).

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GRAPHS











PACKAGE DIMENSIONS



	Dimensions							
	Inc	h	Millin					
Ltr	Min	Max	Min	Max	Notes			
BD	.056	.075	1.42	1.91	3			
BL	.140	.180	3.56	4.57	3			
LD	.018	.022	0.46	0.56				
LL	1.000	1.500	25.40	38.10				
LL ₁		.050		1.27	4			

NOTES:

- 1. Dimensions are in inch.
- 2. Millimeters are given for general information only.
- 3. Package contour optional within BD and length BL. Heat slugs, if any, shall be included within this cylinder but shall not be subject to minimum limit of BD. The BL dimension shall include the entire body including slugs.
- 4. Within this zone lead, diameter may vary to allow for lead finishes and irregularities other than heat slugs.
- 5. In accordance with ASME Y14.5M, diameters are equivalent to Φx symbology.