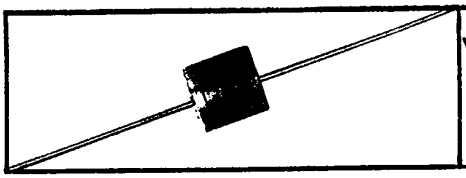


VOLTAGE RANGE
50 to 1000 Volts
CURRENT
10.0 Amperes

FEATURES

- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with Freon, Alcohol, Chlorothene and similar solvents
- The plastic material carries U/L recognition 94V-O

MECHANICAL DATA

Case: Molded plastic

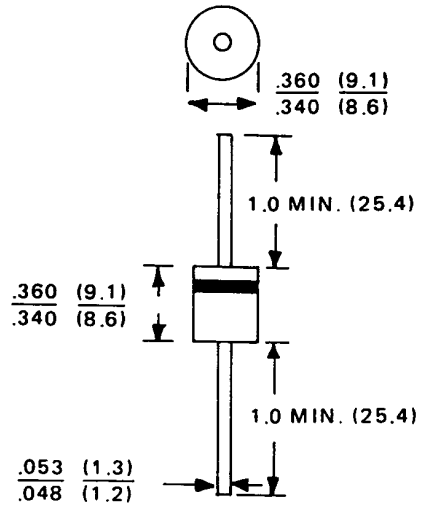
Terminals: Plated axial leads, solderable per MIL-STD-202, Method 208

Polarity: Color band denotes cathode

Weight: 0.07 ounce, 2.2 grams

Mounting position: Any

R-6



Dimensions in inches (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25° C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load,
For capacitive load, derate current by 20%.

		LT10A01	LT10A02	LT10A03	LT10A04	LT10A05	LT10A06	LT10A07	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375", (9.5mm) Lead Lengths @ T_A = 50°C	$I_{(AV)}$	10.0							A
Peak Forward Surge Current 8.3 ms single half-sine-wave superimposed on rated load	I_{FSM}	600							A
Maximum Forward Voltage @ IF = 10ADC	V_F	1.0							V
Maximum DC Reverse Current @ T_A = 25°C at Rated DC Blocking Voltage	I_R	10							uA uA
Typical Junction Capacitance (Note 1)	C_J	150				80			pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	10							°C/W
Operating Temperature Range	T_J	–65 to + 175							°C
Storage Temperature Range	T_{STG}	–65 to + 175							°C

NOTES: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC
2. Thermal Resistance Junction to Ambient.

FIG. 1-FORWARD DERATNG CURVE

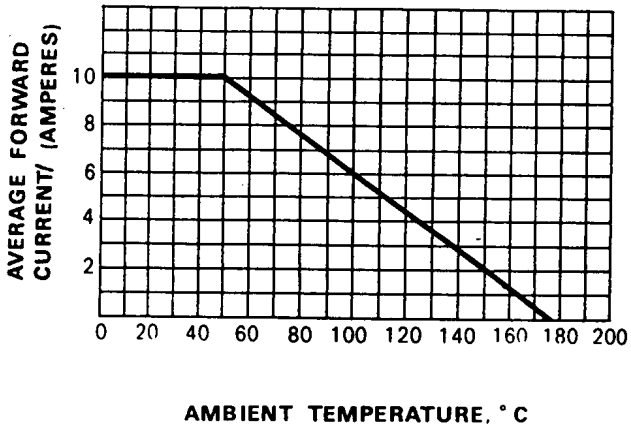


FIG. 2–TYPICAL FORWARD CHARACTERISTIC

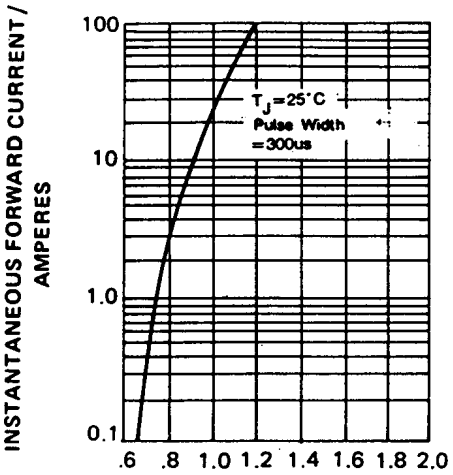


FIG. 3–PEAK FORWARD SURGE CURRENT

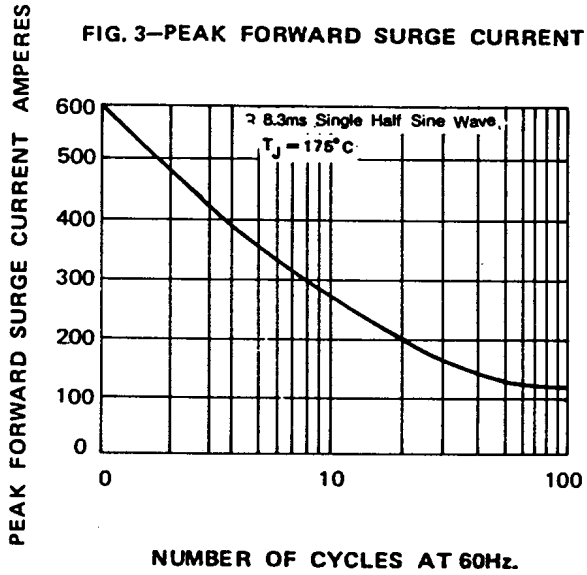


FIG. 4–TYPICAL THERMAL RESISTANCE