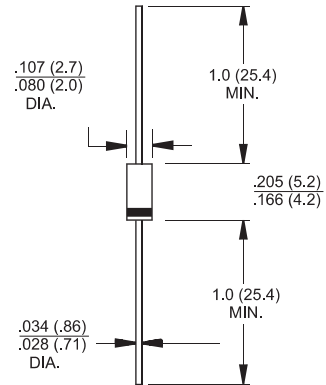




### DO-41



Dimensions in inches and (millimeters)

### FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

### MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL94V-1 rate flame retardant
- Lead: Lead solderable per MIL-STD-202 method 208 guaranteed
- Polarity: As Marked
- Mounting position: Any
- Weight: 0.093 grams (Approximately)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	VALUES	UNITS
Maximum Recurrent Peak Reverse Voltage	200	V
Working Peak Reverse Voltage	200	V
Maximum DC Blocking Voltage	200	V
Maximum Average Forward Rectified Current See Fig. 1	2	A
Peak Forward Surge Current, 8.3 ms single half sine-wave Superimposed on rated load (JEDEC method)	50	A
Maximum Instantaneous Forward Voltage (IF = 2 Amps, TA = 25°C)	0.95	V
Maximum Instantaneous Forward Voltage (IF = 2 Amps, TA = 125°C)	0.72	
Maximum DC Reverse Current at Rated DC Blocking Voltage (Note 3)	TA = 25°C 0.2 TA = 125°C 8	mA
Typical Junction Capacitance (Note 1)	70	pF
Typical Thermal Resistance RθJL (Note 2)	10	°C /W
Voltage Rate of Change (Rated VR)	10000	V/us
Operating Temperature Range TJ	-50 ~ +150	°C
Storage Temperature Range TSTG	-65 ~ +175	°C

#### NOTES:

1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Thermal Resistance Junction to Lead.
3. Pulse test: 300us pulse width, 1% duty cycle.

### RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

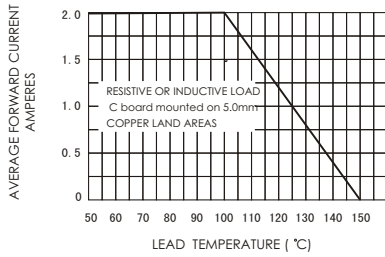


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

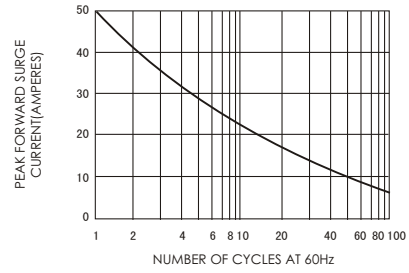


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

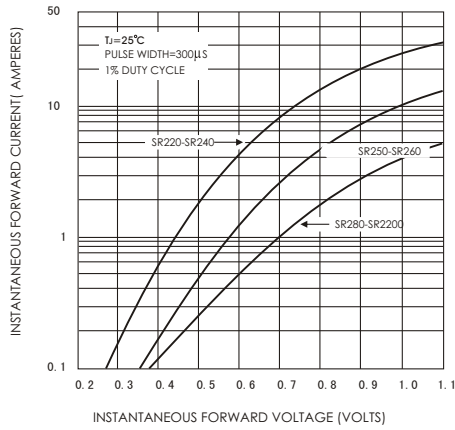


FIG.4-TYPICAL REVERSE CHARACTERISTICS

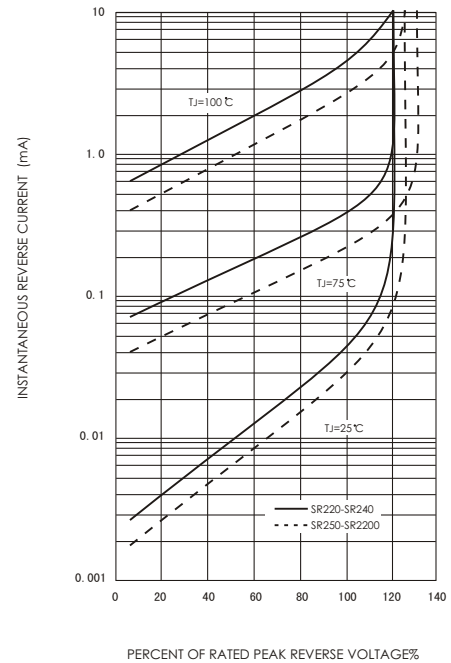


FIG.5-TYPICAL JUNCTION CAPACITANCE

