

VOLTAGE RANGE: 1600V

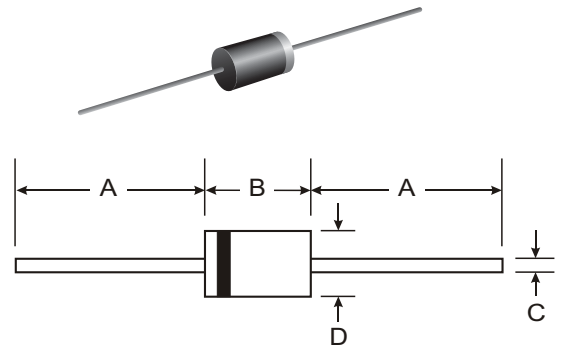
CURRENT: 1.0 A

Features

- Molded case feature for auto insertion
- High current capability
- Low leakage current
- Fast switching capability
- High temperature soldering guaranteed
- 250°C /10sec/0.375" lead length at 5 lbs tension
- Glass Passivated chip

Mechanical Data

- Case: DO - 41 Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.34 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



DO-41		
Dim	Min	Max
A	25.40	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

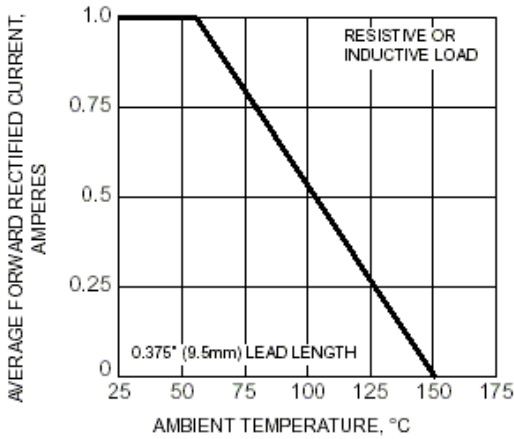
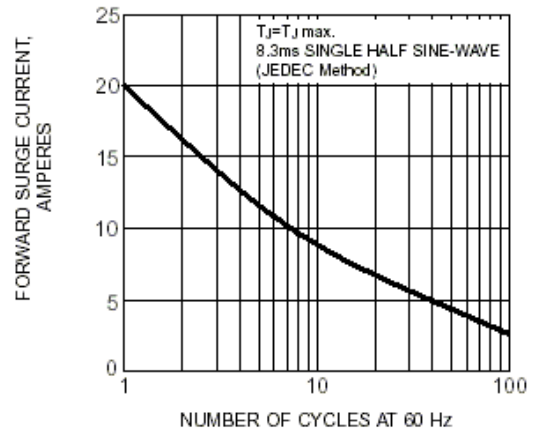
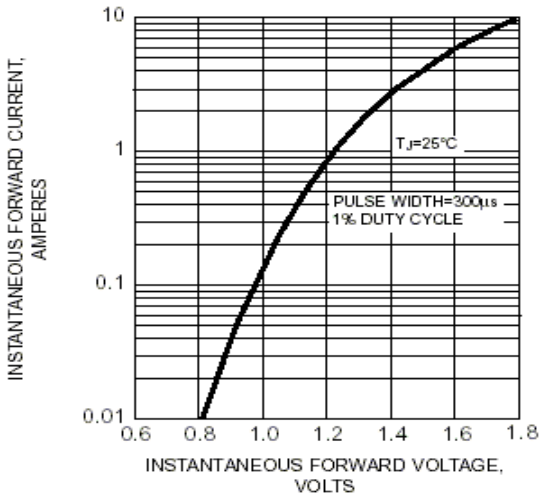
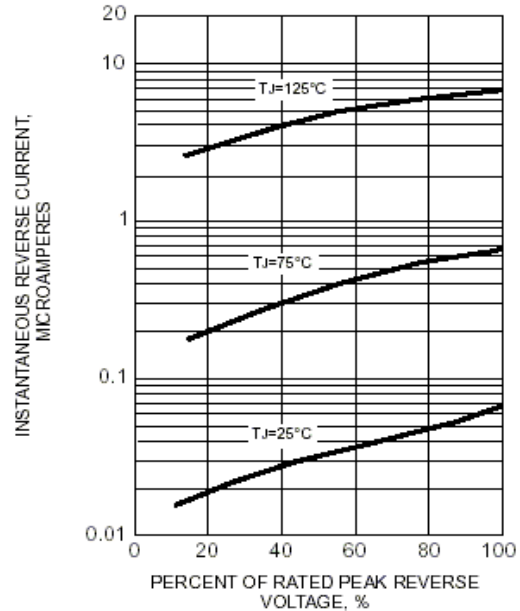
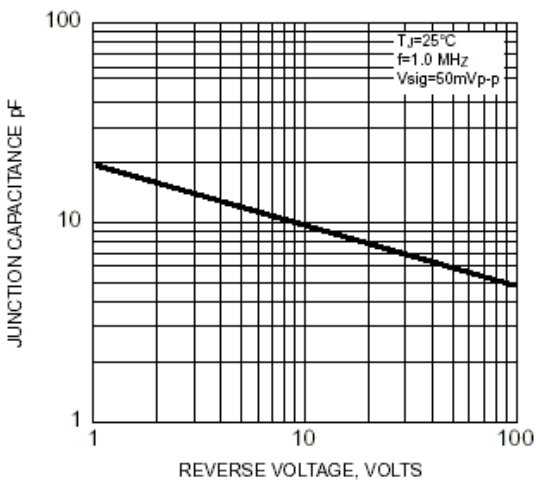
Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

	Symbol	SRGPP10Y	Unit
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	1600	V
Maximum RMS Voltage	V _{rms}	1120	V
Maximum DC blocking Voltage	V _{dc}	1600	V
Maximum Average Forward Rectified Current 3/8" lead length at T _a =55°C	I _{f(av)}	1.0	A
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	I _{fsm}	20.0	A
Maximum Instantaneous Forward Voltage at Rated forward current	V _f	1.5	V
Maximum DC Reverse Current T _a =25°C At rated DC blocking voltage T _a =100°C	I _r	5.0 100.0	μA
Typical Junction Capacitance (Note 1)	C _j	15.0	pF
Maximum Reverse Recovery Time (Note 2)	T _{rr}	200	nS
Storage and Operating Junction Temperature	T _{stg} , T _j	-55 to +150	°C

Note:

1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
2. Test Condition I_f =0.5A, I_r =1.0A, I_{rr} =0.25A

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

FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE
