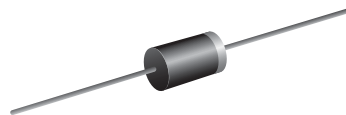


VOLTAGE RANGE: 2000V
CURRENT: 1.0 A

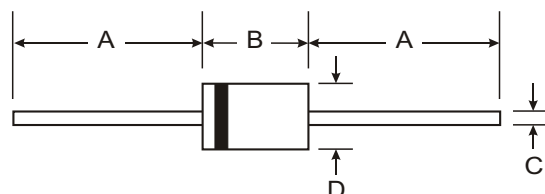


Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

Mechanical Data

- Case: DO-41 Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.35 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%.

Characteristic	Symbol	EM520	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	2000	V
RMS Reverse Voltage	V _{R(RMS)}	1400	V
Average Rectified Output Current (Note 1) @T _A = 75°C	I _O	1.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30	A
Forward Voltage @I _F = 1.0A	V _{FM}	1.1	V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}	5.0 500	μA
Typical Junction Capacitance (Note 2)	C _j	15	pF
Typical Thermal Resistance Junction to Ambient (Note 1)	R _{θJA}	50	K/W
Operating Temperature Range	T _j	-65 to +125	°C
Storage Temperature Range	T _{STG}	-65 to +150	°C

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case
 2. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V D.C.

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

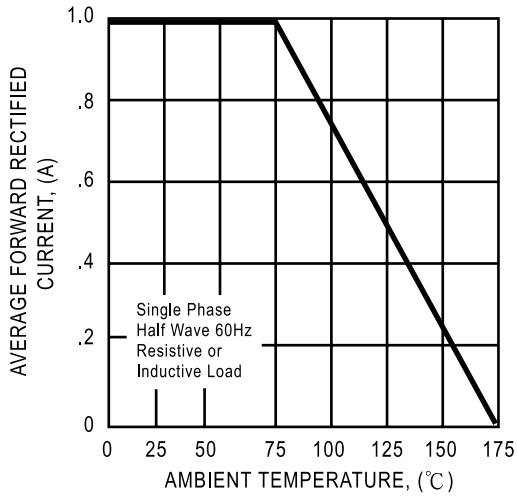


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

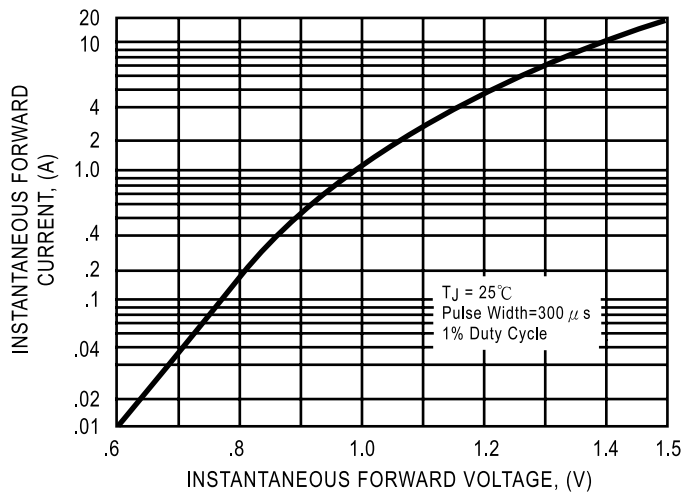


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

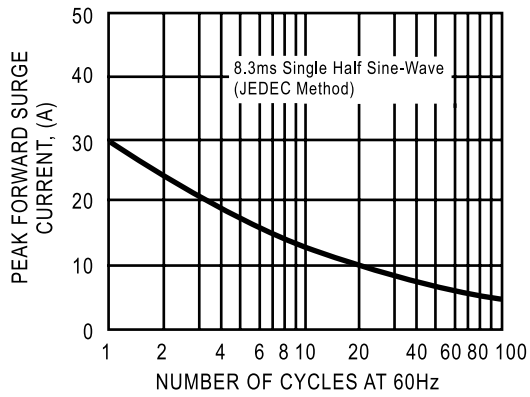


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

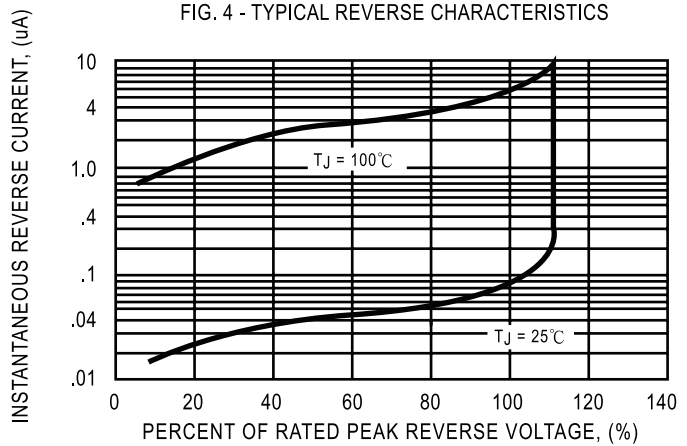


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

