

AXIAL LEADED RECTIFIER DIODES

VOLTAGE RANGE: 2000V CURRENT: 1.0 A

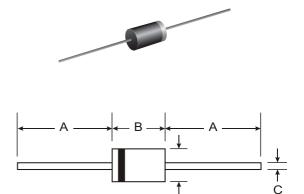
Features

- 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	
Α	25.40	_	
В	4.06	5.21	
С	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	VRRM VRWM VR	2000	V
RMS Reverse Voltage	VR(RMS)	1400	V
Average Rectified Output Current (Note 1) @T _A = 75°C	lo	1.0	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30	А
Forward Voltage @I _F = 1.0A	VFM	1.1	V
	İRM	5.0 500	μA
Typical Junction Capacitance (Note 2)	Cj	15	pF
Typical Thermal Resistance Junction to Ambient (Note 1)	R _θ JA	50	K/W
Operating Temperature Range	Tj	-65 to +125	°C
Storage Temperature Range	Тѕтс	-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 1.0 AVERAGE FORWARD RECTIFIED CURRENT, (A) .8 .6 .4 Single Phase Half Wave 60Hz Resistive or .2 Inductive Load 0 25 50 100 125 175 0 AMBIENT TEMPERATURE, (°C)

