

EM513 - EM518

Voltage Range - 1600 to 2000 V Forward Current - 1 Ampere

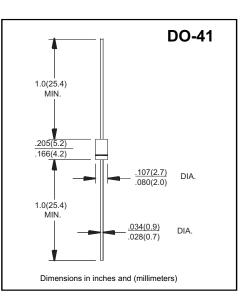
AXIAL SILASTIC GUARD JUNCTION STANDARD RECTIFIER

FEATURES

- Low cost construction
- Low forward voltage drop
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
- $260^{\circ}C/10$ secods/.375"(9.5mm)lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-O rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.012 ounce, 0.33 grams



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%

PARAMETER		SYMBOLS	EM513	EM516	EM518	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	1600	1800	2000	Volts
Maximum RMS Voltage		V _{RMS}	1120	1260	1400	Volts
Maximum DC Blocking Voltage		V _{DC}	1600	1800	2000	Volts
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length at $T_A=25$ °C		I _(AV)	1.0			Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I _{FSM}	30			Amps
Maximum Instantaneous Forward Voltage @ 1.0A		V _F	1.0			Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	$T_A = 25 \degree C$	I _R	5.0			μA
	$T_A = 100$ °C			50	_ μα	
Maximum Full Load Reverse Current, full cycle average 0.375"(9.5mm)lead length at $T_L=75$ °C		I _{R(AV)}	30			μΑ
Typical Junction Capacitance (Note 1)		CJ	15			pF
Typical Thermal Resistance (Note 2)		$R_{\theta JA}$	50			°C/W
Operating Junction Temperature Range		TJ	-55 to +150			°C
Storage Temperature Range		T _{STG}	-55 to +150			°C

Notes:

1. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.

2. Thermal Resistance from junction to ambient at .375"(9.5mm) lead length, P.C.board mounted.



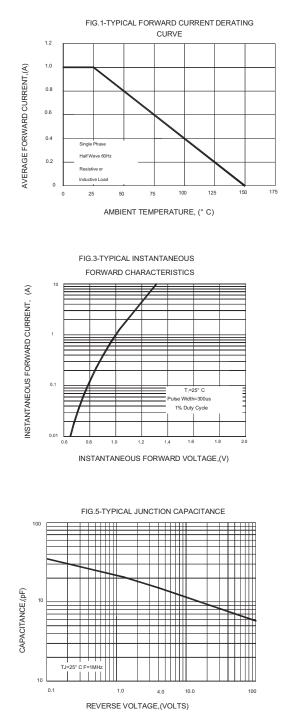
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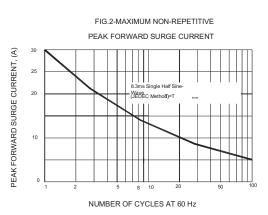
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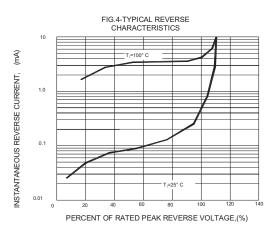
Forward Current - 1 Ampere

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RATINGS AND CHARACTERISTIC CURVES EM513 - EM518







Disclaimer

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Email: sales@micindia.com

Website: www.micindia.com