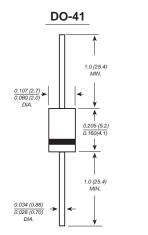


EM513 THRU EM518

GENERAL PURPOSE SILICON RECTIFIER

Reverse Voltage - 1600 to 2000 Volts Forward Current - 1.0 Ampere



Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- ◆ High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-41 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

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 current derate by 20%.

MDD Catalog Number	SYMBOLS	EM513	EM516	EM518	UNITS
Maximum repetitive peak reverse voltage	Vrrm	1600	1800	2000	VOLTS
Maximum RMS voltage	VRMS	1120	1260	1400	VOLTS
Maximum DC blocking voltage	VDC	1600	1800	2000	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length at Ta=75℃	l(AV)	1.0			Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	30.0			Amps
Maximum instantaneous forward voltage at 1.0A	VF	1.1			Volts
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	lR	5.0 50.0			μА
Typical junction capacitance (NOTE 1)	Cı	15.0			pF
Typical thermal resistance (NOTE 2)	RθJA	50.0			°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-65 to +175			°C

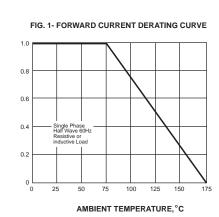
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

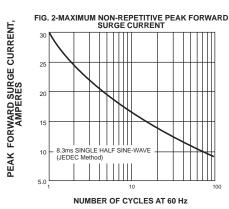
2.Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

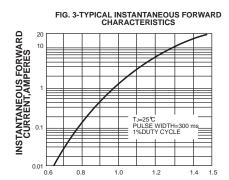


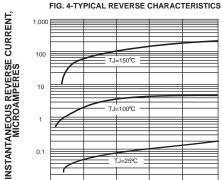
RATINGS AND CHARACTERISTIC CURVES EM513 THRU EM518









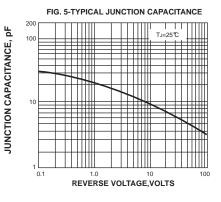


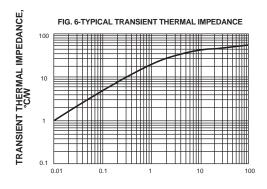
0.01

INSTANTANEOUS FORWARD VOLTAGE, VOLTS



60





t,PULSE DURATION,sec.

The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

