

EM2K

GENERAL PURPOSE SILICON RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 2.5Amperes

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: 260°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-15 molded plastic body

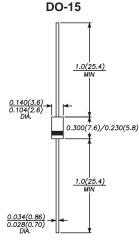
Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.022 ounce, 0.625 grams



Dimensions in inches and (millimeters)

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%.

	SYMBOLS	EM2K	UNITS
Maximum repetitive peak reverse voltage	Vrrm	1000	VOLTS
Maximum RMS voltage	VRMS	700	VOLTS
Maximum DC blocking voltage	VDC	1000	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length at Ta=75°C	l(AV)	2.5	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	lfsm	80.0	Amps
Maximum instantaneous forward voltage at 2.5A	VF	1.0	Volts
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	lR	5.0 80.0	μА
Typical junction capacitance (NOTE 1)	Cı	20.0	pF
Typical thermal resistance (NOTE 2)	Reja	50.0	°C/W
Operating junction and storage temperature range	Тл,Твтв	-55 to +155	°C

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

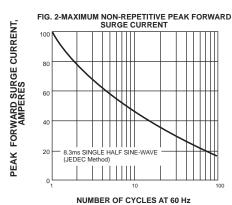
2.Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

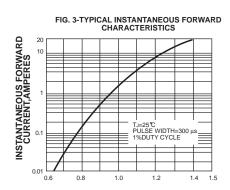


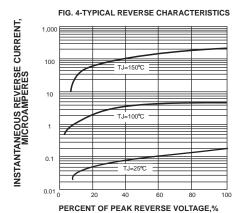
RATINGS AND CHARACTERISTIC CURVES EM2K

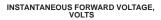
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

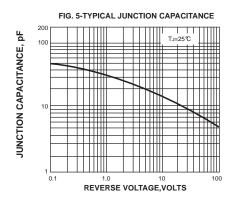
2.5
2.0
1.5
1.0
Single Phase Half Wave 60Hz Resistive or inductive Load
0.5
AMBIENT TEMPERATURE, °C

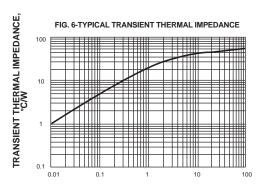












t,PULSE DURATION,sec.