

ES2M



2.0 AMPS. Surface Mount High Efficiency Fast Recovery Rectifier

FEATURES

The plastic package carries Underwriters Laboratory

Flammability Classification 94V-0

For surface mounted applications

Super fast switching for high efficiency

Low reverse leakage

Built-in strain relief.ideal for automated placement

High forward surge current capability

High temperature soldering guaranteed:

260°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AC molded plastic body

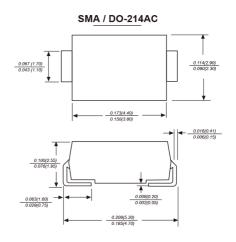
Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.002 ounce, 0.07 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%.

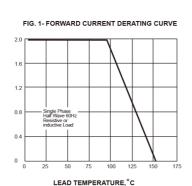
	SYMBOLS	ES2M	UNITS
Maximum repetitive peak reverse voltage	VRRM	1000	V
Maximum RMS voltage	VRMS	700	V
Maximum DC blocking voltage	Vpc	1000	V
Maximum average forward rectified current at TL=90°C	l(AV)	2.0	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	lfsm	50.0	А
Maximum instantaneous forward voltage at 2.0A	VF	1.7	V
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C	l _R	5.0 50.0	μА
Maximum reverse recovery time	trr	75	ns
Typical junction capacitance	Cı	20.0	pF
Typical thermal resistance	Reja	65.0	°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150	°C

Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

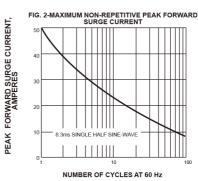
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

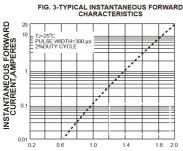


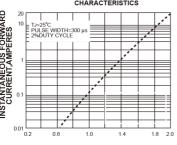


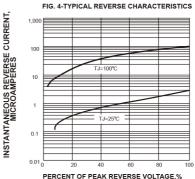




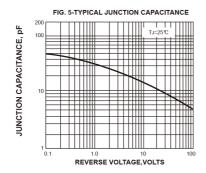


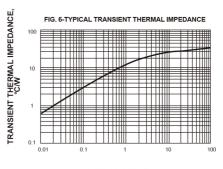












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