Kingtronics®

M20

SURFACE MOUNT GENERAL RECTIFIER

FEATURE

The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 For surface mounted applications Low reverse leakage Built-in strain relief,ideal for automated placement High forward surge current capability High temperature soldering guaranteed: 250 C/10 seconds at terminals

Mechanical Data

Case: JEDEC SMA-J molded plastic body Terminals: Solder

plated, solderable per MIL-STD-750, Method 2026

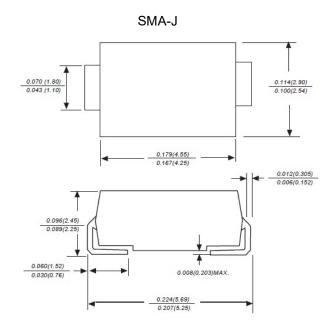
Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 0.083 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%.

Reverse Voltage - 2000 Volts Forward Current - 1.0 Ampere Amperes



Dimensions in inches and (millimeters)

CHARACTERISTICS	Symbols	M20	UNITS
Maximum repetitive peak reverse voltage	Vrrm	2000	Volts
Maximum RMS voltage	Vrms	1400	Volts
Maximum DC blocking voltage	VDC	2000	Volts
Maximum average forward rectified current	I(AV)	0.5	Amp
at TL=110 C			
Peak forward surge current			
8.3ms single half sine-wave superimposed on rated load (JEDEC	Ifsm	25	Amps
Method)			
Maximum instantaneous forward voltage at 1.0A	VF	1.1	V
Maximum DC reverse current @Ta=25 °C	Ir	5.0	uA
at rated DC blocking voltage @TA=100 °C		50.0	
Typical junction capacitance per element (Note 1)	C_J	15	pF
Typical Thermal Resistance (Note 2)	$R_{ heta JA}$	75	°C/W
Operating junction and storage temperature range	TJ , Tstg	(-55 to +150)	°C

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

2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

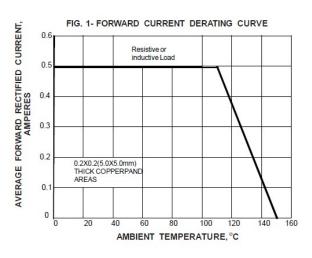
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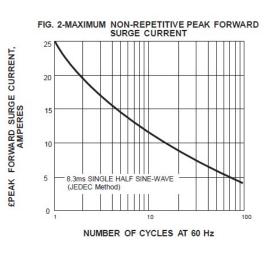
Website: www.kingtronics.com Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099

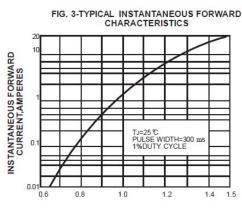
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RATINGS AND CHARACTERISTIC CURVES M20

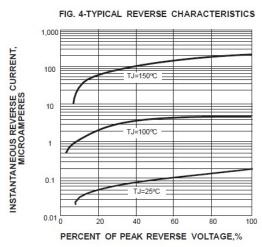


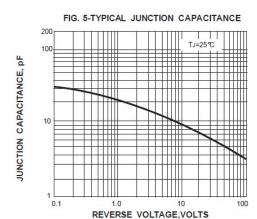


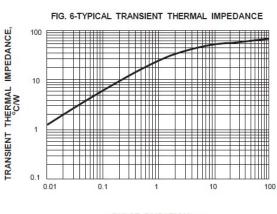


INSTANTANEOUS FORWARD VOLEAGE,

VOLTS







t,PULSE DURATION,sec.

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