

M1 THRU M7

SURFACE MOUNT GENERAL RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

FEATURES

- ◆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 DO-214AC molded plastic body

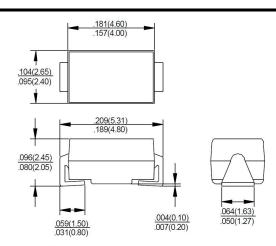
Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

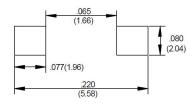
Mounting Position: Any

Weight: 0.075 grams

DO-214AC



Mounting Pad Layout



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	M1	M2	М3	M4	M5	M6	М7	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC Blocking Voltage	Vdc	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current	I(AV)		1.0 Amp						
Peak forward surge current	lfsм		30.0 Amps						
Maximum instantaneous forward voltage at 1.0A	VF		1.1 Volts						
Maximum DC reverse current T _A =25 °C at rated DC blocking voltage T _A =100 °C	lr		5.0 50.0						
Typical junction capacitance (NOTE 1)	CJ				15.0				pF
Typical thermal resistance (NOTE 2)	R_{qJA}		75.0						°C/W
Operating junction and storage temperature range	Тյ,Тsтg		-55 to +125, -55 to +150						$^{\circ}\!\mathbb{C}$

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

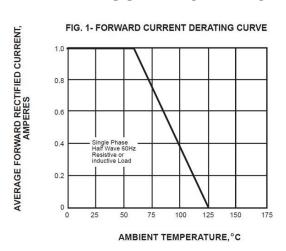
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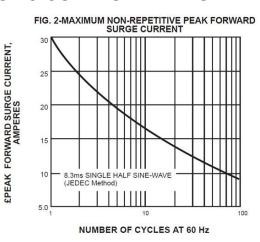
Website: www.kingtronics.com Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099

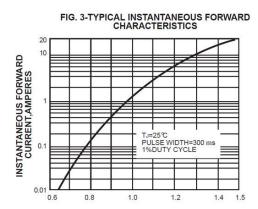
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M1 THRU M7

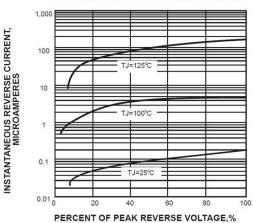
RATINGS AND CHARACTERISTIC CURVES M1 THRU M7



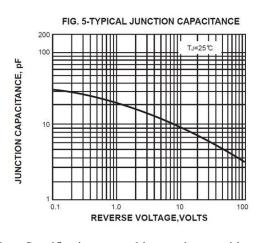












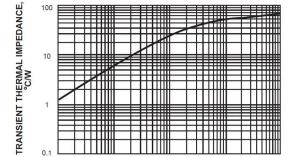


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

t,PULSE DURATION,sec.

Note: Specifications are subject to change without notice.

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