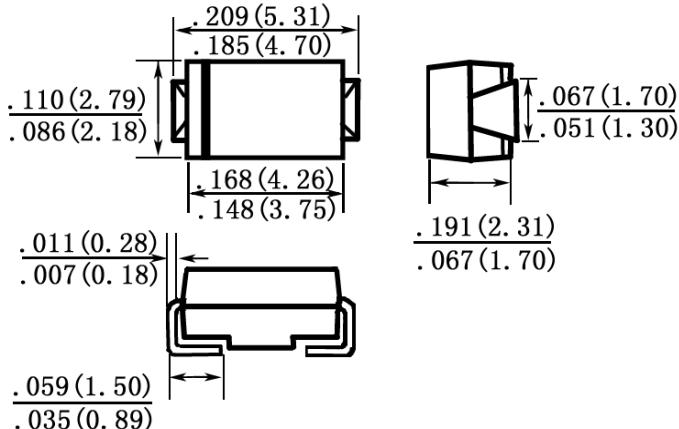




M1~M7

Surface Mount Standard Rectifiers**FEATURES**

- For surface mounted applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- Low forward voltage drop
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- High temperature soldering : 260°C /10 seconds at terminals

DO-214AC (SMA)**MECHANICAL DATA**

Case: Molded plastic, SMX

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

Polarity: Color band denotes cathode end

Packaging: 12mm tape per EIA STD RS-481

Weight: 0.002 ounce, 0.064 gram

Dimensions in inches and (millimeters)**Maximum Ratings and Electrical Characteristics**

Ratings at 25° ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	M1	M2	M3	M4	M5	M6	M7	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T _L =75	I _(AV)				1.0				Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}				30				Amp
Maximum Forward Voltage at 1.0A	V _F				1.1				Volts
Maximum Reverse Current at T _A =25 at Rated DC Blocking Voltage T _A =125	I _R				5.0				µAmp
Typical Junction Capacitance (Note 1)	C _J				12				pF
Typical Thermal Resistance (Note 2)	R _{θJA}				28				/W
Maximum Reverse Recovery Time (Note 3)	T _{RR}				2.5				µS
Operating Junction Temperature Range	T _J				-55 to +150				
Storage Temperature Range	T _{stg}				-55 to +150				

NOTES:

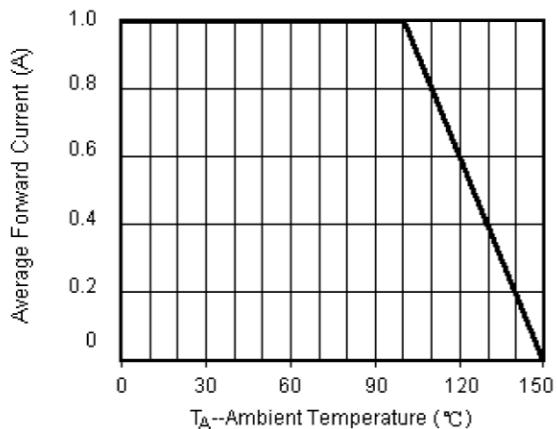
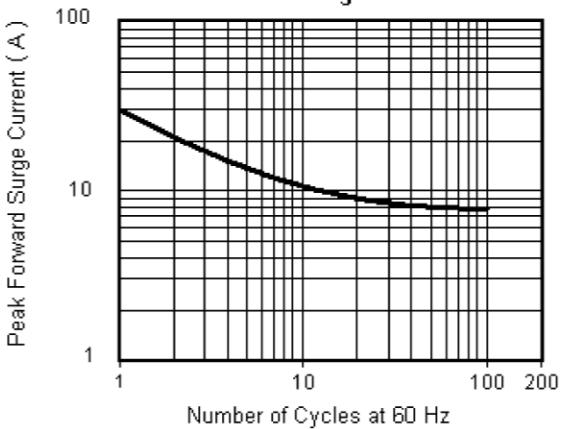
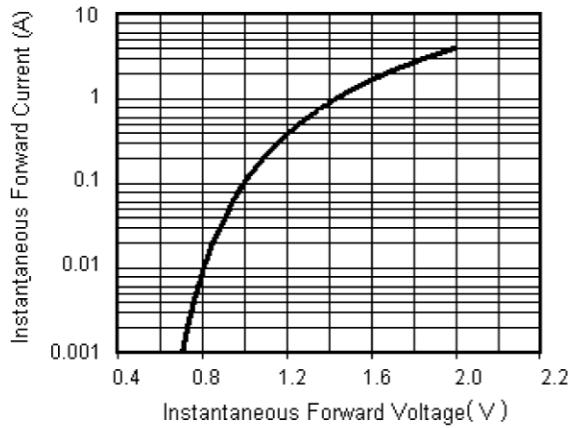
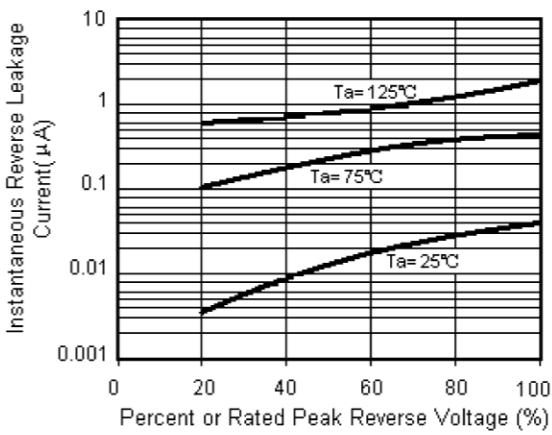
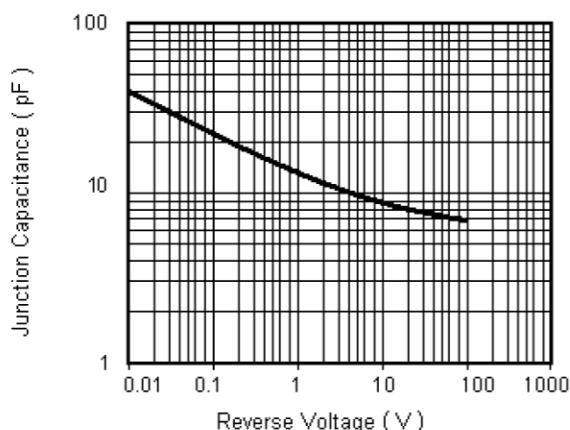
1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

2- Thermal resistance from junction to ambient mounted on P.C.B. with 0.3 x 0.3" (8.0 x 8.0mm) copper pad areas

3- Reverse Recovery Test Conditions : I_F=0.5A I_R=1A I_{RR}=0.25A.广东钜兴电子科技有限公司
GUANGDONG JUXING ELECTRONIC TECHNOLOGY., LTD



M1~M7

Surface Mount Standard Rectifiers**Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)****Fig.1 Forward Current Derating Curve****Fig.2 Maximum Non-Repetitive Peak Forward Surge Current****Fig.3 Typical Instantaneous Forward Characteristics****Fig.4 Typical Reverse Leakage Characteristics****Fig.5 Typical Junction Capacitance****Fig.6 Transient Thermal Impedance**