

SM120 THRU SM160

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 60 Volts CURRENT 1.0 Ampere

FEATURES

- * Fast switching
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any * Weight: 0.015 gram

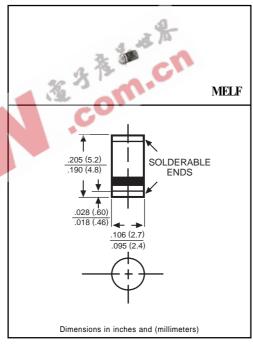
MECHANICAL DATA

* Epoxy: Device has UL flammability classification 94V-O



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	SM120	SM130	SM140	SM150	SM160	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	Volts
Maximum RMS Voltage	VRMS	14	21	28	35	42	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	lo		Amps				
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	40					
Typical Thermal Resistance (Note 1)	RθJA	50					°C/W
Typical Junction Capacitance (Note 2)	Cı	110					pF
Operating Temperature Range	TJ	-65 to + 125 -65 to + 150			٥C		
Storage Temperature Range	Tstg	-65 to + 150					°C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS		SYMBOL	SM120	SM130	SM140	SM150	SM160	UNITS
Maximum Instantaneous Forward Voltage at 1.0.	A DC	VF .55 .70		Volts				
Maximum Average Reverse Current	@Ta = 25°C	lR .	1.0				mAmps	
at Rated DC Blocking Voltage	@Ta = 100°C] IK	10					mAmps

RATING AND CHARACTERISTIC CURVES (SM120 THRU SM160)

