

FEATURES

- * Ideal for surface mounted applications
- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High switching capability
- * High reliability
- * High surge capability
- * Moisture Sensitivity Level 1

MECHANICAL DATA

Case: Molded plastic, DO-214AB(SMC)

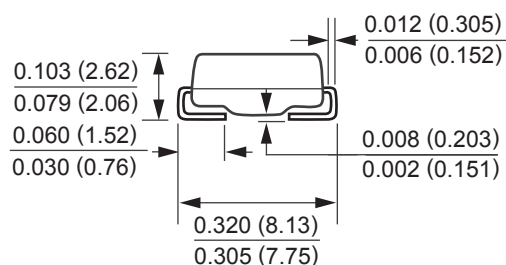
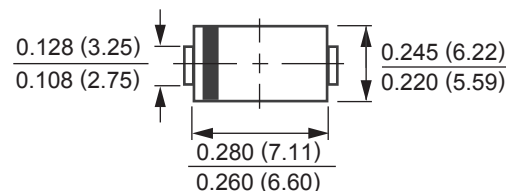
Epoxy: UL 94V-O rate flame retardant

Lead:MIL-STD-202E method 208C guaranteed

Mounting position: Any

Weight: Approximated 0.231 gram

Polarity: Color band denotes cathode end



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, derate current by 20%

RATINGS	SYMBOL	SK52C	SK53C	SK54C	SK55C	SK56C	SK58C	SK510C	SK515C	SK520C	UNIT
Marking Code		SK52C	SK53C	SK54C	SK55C	SK56C	SK58C	SK510C	SK515C	SK520C	
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	VRMS	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current	Io	5.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	100.0									Amps
Typical Thermal Resistance (Note 2)	RθJA RθJC	30 30									°C/W
Typical Junction Capacitance (Note 1)	CJ	300			210		170		150	110	pF
Operating Temperature Range	TJ	-55 to +125							-55 to +150		°C
Storage Temperature Range	TSTG	-55 to +150									°C

CHARACTERISTICS		SYMBOL	SK52C	SK53C	SK54C	SK55C	SK56C	SK58C	SK510C	SK515C	SK520C	UNIT	
Maximum Forward Voltage at 5.0A DC		V _F	0.55			0.70		0.85		0.87	0.90	Volts	
Maximum Average Reverse Current at	@T _c =25°C	I _R	0.5										mAmps
Rated DC Blocking Voltage	@T _c =100°C		10										

NOTES:

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

2- Thermal Resistance From Junction to Case.

RATING AND CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

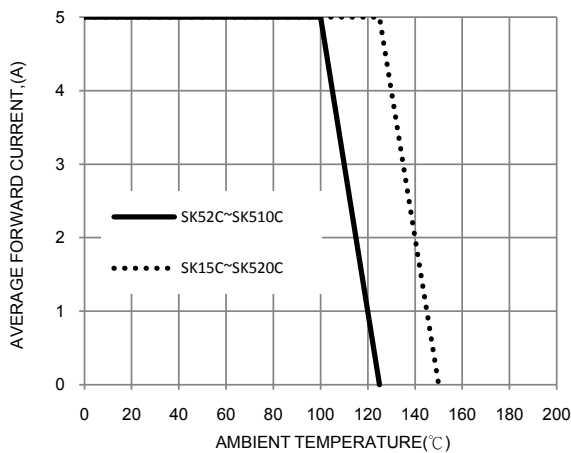


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

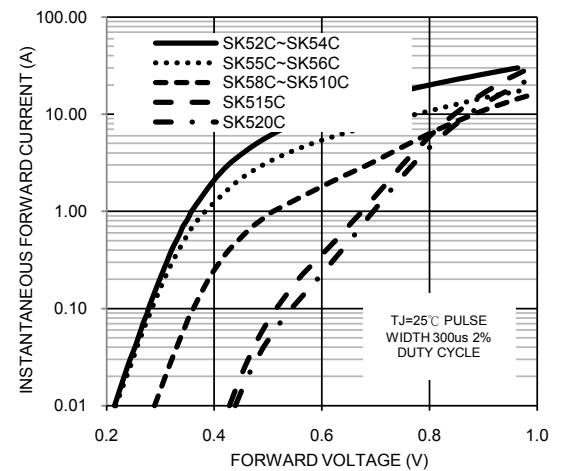


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

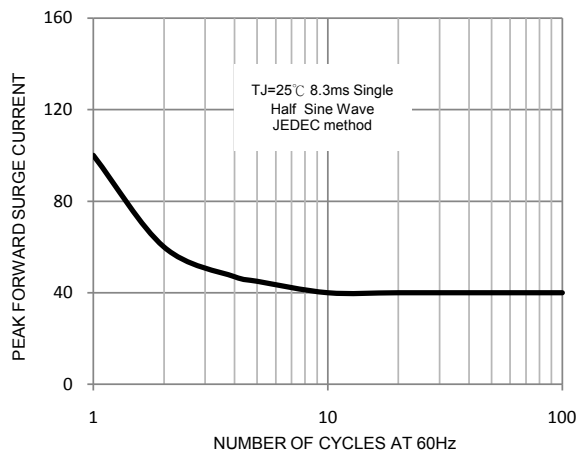


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

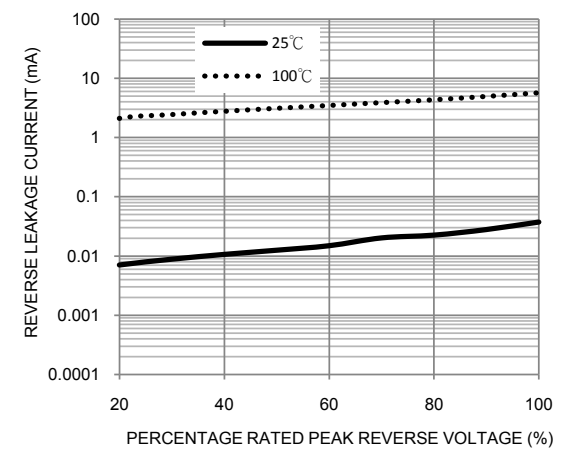
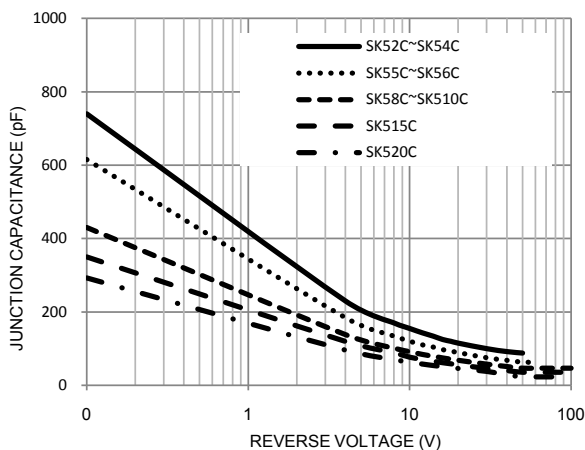


FIG. 5-TYPICAL JUNCTION CAPACITANCE



**5.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS -20V- 200V
SMC PACKAGE****Ordering Information:**

Device PN	Packing
Part Number -T ⁽¹⁾ G ⁽²⁾ -WS	Tape & Reel Packing :3000pcs/Reel

Note: 1. Packing code, T: Tape & 13" Reel Packing;

2. RoHS product for packing code suffix "G", Halogen free product for packing code suffix "H" .

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