

) '\$5 'GIF: 579 'ACIBH'G7 < CHH? M65 FF → 9 F 'F97 H → → 9 FG'!&\$J!'&\$\$J GA6 '''D57?5; 9

SK52B THRU SK520B

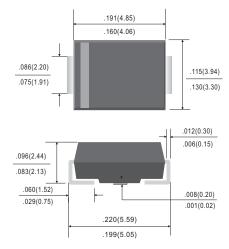
FEATURES

- * Ideal for surface mounted applications
- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High switching capability
- * High reliability
- * High surge capability
- * RoHS product for packing code suffix "G",
- * Halogen free product for packing code suffix "H".
 Moisture Sensitivity Level 1

MECHANICAL DATA

Case: Molded plastic, DO-214AA(SMB)
Epoxy: UL 94V-O rate flame retardant
Lead:MIL-STD-202E method 208C guaranteed

Mounting position: Any Weight: Approximated 0.1gram



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 of inductive load.

For capacitive load, derate current by 20%

RATINGS	SYMBOL	SK52B	SK53B	SK54B	SK55B	SK56B	SK58B	SK510B	SK515B	SK520B	UNIT
Marking Code		SK52B	SK53B	SK54B	SK55B	SK56B	SK58B	SK510B	SK515B	SK520B	
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	lo	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)	Roja/Rojc	60/20						°C/W			
Typical Junction Capacitance (Note 1)	CJ		300		2	10	1	170	150	110	РF
Operating Temperature Range	TJ		-55 to +125				-55 to +150			°C	
Storage Temperature Range	TSTG	-55 to +150						°C			

CHARACTERISTICS		SYMBOL	SK52B	SK53B	SK54B	SK55B	SK56B	SK58B	SK510B	SK515B	SK520B	UNIT
Maximum Forward Voltage at 5.0A DC		VF	0.55		0.70		0.85		0.87	0.90	Volts	
Maximum Average Reverse Current at	@Ta=25°C	In	0.5									
Rated DC Blocking Voltage	@Ta=100°C	IR	20									

NOTES:

- 1- Measured at 1 MHZ and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance From Junction to Ambient , From Junction to Case on P.C.B. mounted 0.55*0.55"(14*14mm) copper pad areas.



5.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS -20V- 200V SMB PACKAGE

SK52B **THRU SK520B**

RATING AND CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

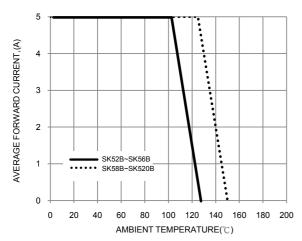


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

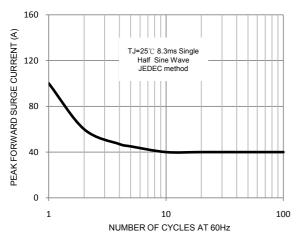


FIG. 5-TYPICAL JUNCTION CAPACITANCE

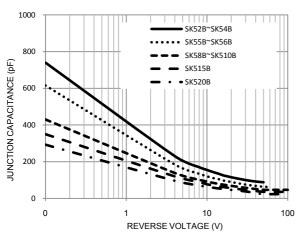


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

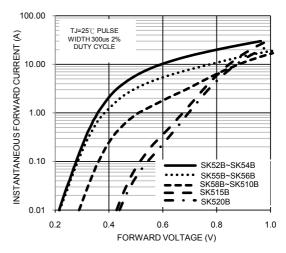
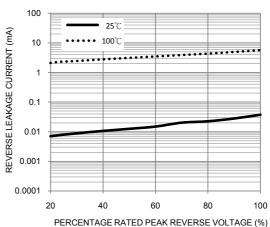


FIG. 4-TYPICAL REVERSE CHARACTERISTICS





5.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS -20V- 200V SMB PACKAGE

SK52B THRU SK520B

Ordering Information:

Device PN	Packing
Part Number -T ⁽¹⁾ G ⁽²⁾ -WS	Tape&Reel: 3 Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing

(2) RoHS product for packing code suffix "G"; Halogen free product for packing code suffix "H"

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