



# WILLAS



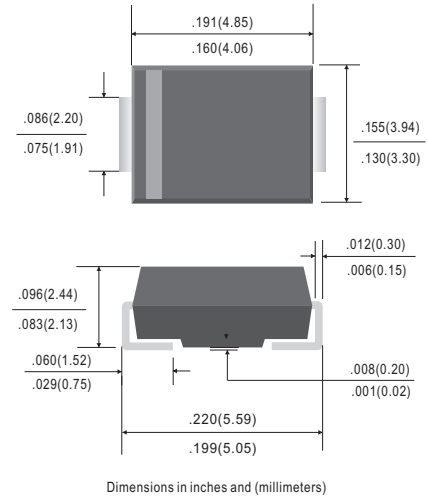
) '\$5'GI F: 579'ACI BH'G7 <CHH?M65FF-9F'F97H- 9FG!&\$J!'&\$J  
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## SK52B THRU SK520B

### FEATURES

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### MECHANICAL DATA

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#### Pb-Free package is available

RoHS product for packing code suffix "G"

Halogen free product for packing code suffix "H"

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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	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	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	60/20									°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	SK52B	SK53B	SK54B	SK55B	SK56B	SK58B	SK510B	SK515B	SK520B	UNIT	
Maximum Forward Voltage at 5.0A DC		V <sub>F</sub>	0.55			0.70		0.85		0.87	0.90	Volts	
Maximum Average Reverse Current at	@T <sub>a</sub> =25°C	I <sub>R</sub>	0.5										mAmps
Rated DC Blocking Voltage	@T <sub>a</sub> =100°C		20										

PÜVÜÜK

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K=ÇÇ G9 @7HFCB-7'7CFD"

### RATING AND CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

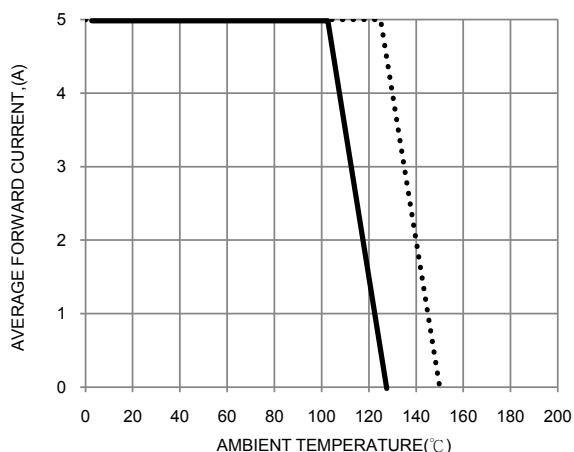


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

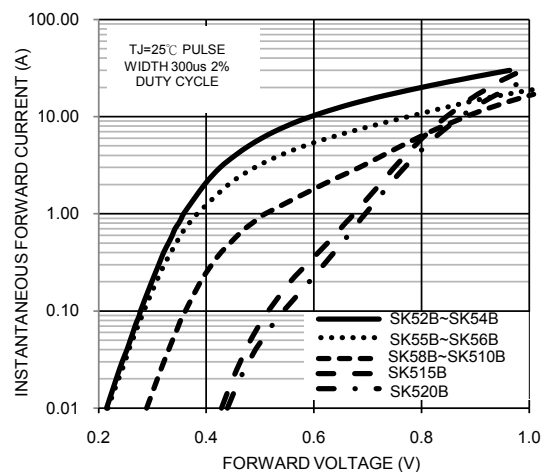


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

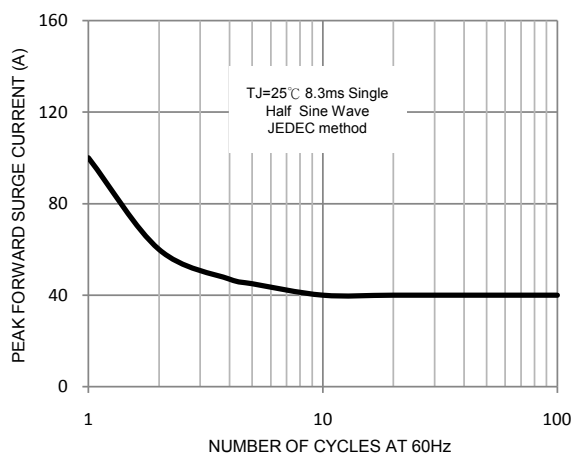


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

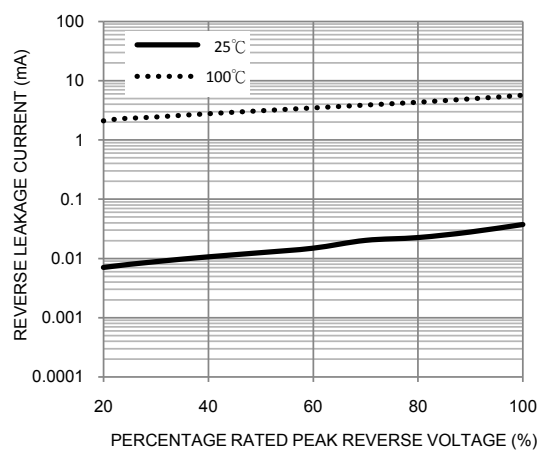
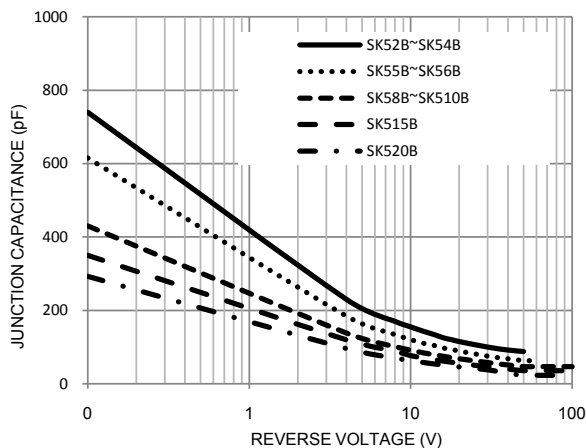


FIG. 5-TYPICAL JUNCTION CAPACITANCE



**Ordering Information:**

Device PN	Packing
Part Number -T <sup>(1)</sup> G <sup>(2)</sup> -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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