



5.0A SCHOTTKY BARRIER RECTIFIERS -20V- 200V SMA PACKAGE

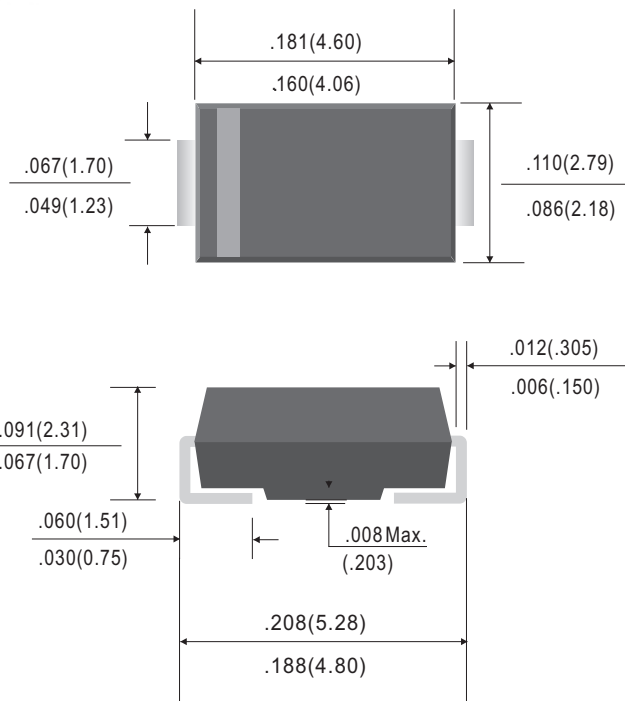
**SK52A
THRU
SK520A**

Features

- Low profile package
- Ideal for automated placement
- Guard Ring for over voltage protection
- Low forward voltage drop
- Component in accordance to RoHS 2002/95/EC
- **Pb-Free package is available**
RoHS product for packing code suffix "G"
Halogen free product for packing code suffix "H"



SMA(DO-214AC)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS (TA=25°C unless otherwise noted)											
PARAMETER	SYMBOL	SK52A	SK53A	SK54A	SK55A	SK56A	SK58A	SK510A	SK515A	SK520A	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current	I _F	5.0									A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	100.0									A
Maximum Instantaneous Forward Voltage IF=5A @ 25°C	V _F	0.55			0.75		0.85		0.87	0.90	V
Maximum DC Reverse Current @ Tc=25°C at Rated DC Blocking Voltage @ Tc=100°C	I _R	0.5 10					0.2 5.0				mA
Typical Junction Capacitance(NOTE1)	C _j	300			210		170		150	110	pF
Typical Thermal Resistance	R _{θJa} R _{θJC}	100 80									°C/W
Operating Temperature Range	T _J	-55 to +125							-55 to +150		°C
Storage Temperature Range	T _{STG}	-55 to +150									°C

NOTES:1.Measured at 1.0MHZ and applied reverse voltage of 4.0V DC

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

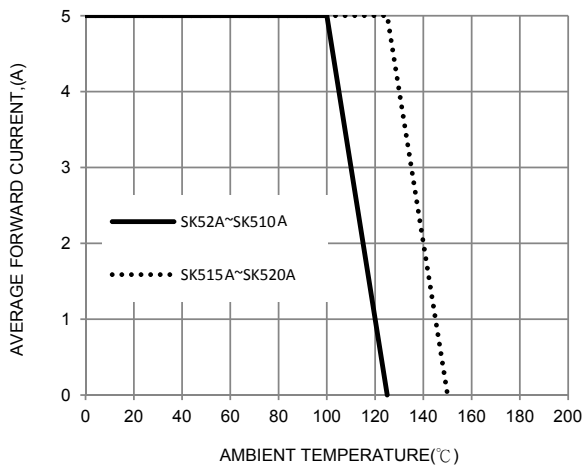


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

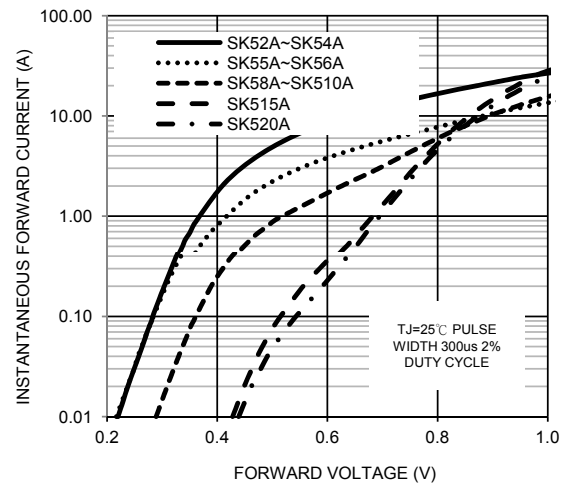


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

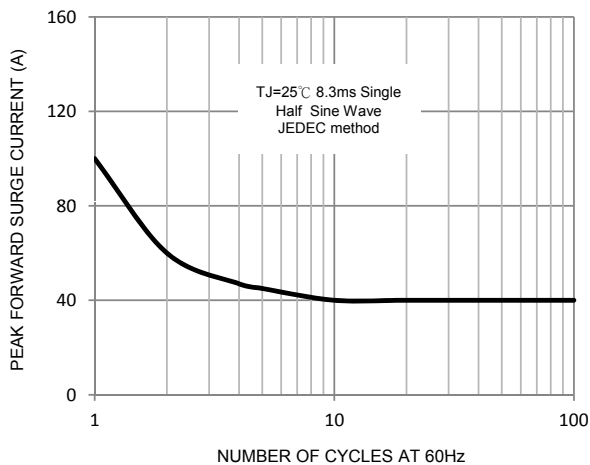


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

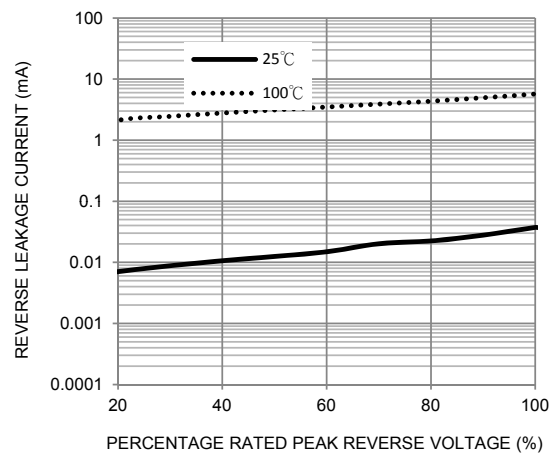
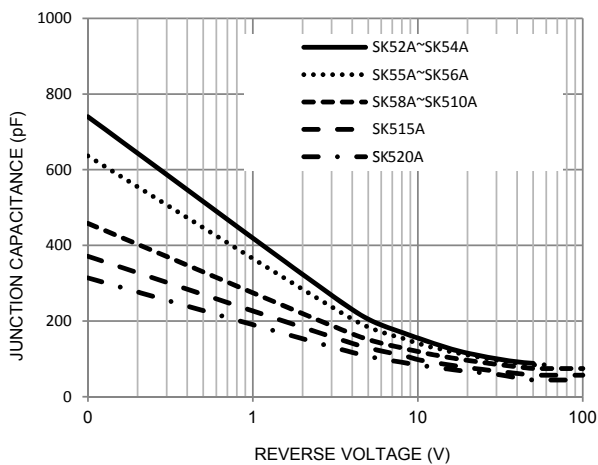


FIG. 5-TYPICAL JUNCTION CAPACITANCE



Ordering Information:

Device PN	Packing
Part Number -T ⁽¹⁾ G ⁽²⁾ -WS	Tape & Reel Packing :5000pcs/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" .

3. WS : Willas brand abbreviation, Label Type does not display

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