

SK52 - SK5B

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

PRV: 20 - 100 Volts lo: 5.0 Amperes

FEATURES:

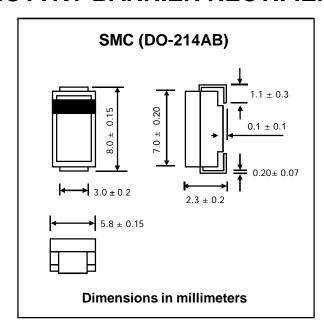
- * High current capability
- * High surge current capability
- * High reliability
- * High efficiency
- * Low power loss
- * Low cost
- * Low forward voltage drop
- * Pb / RoHS Free

MECHANICAL DATA:

* Case : SMC Molded plastic

* Epoxy: UL94V-O rate flame retardant
* Lead: Lead Formed for Surface Mount
* Polarity: Color band denotes cathode end

* Mounting position : Any* Weight : 0.21 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

RATING	SYMBOL	SK 52	SK 53	SK 54	SK 55	SK 56	SK 57	SK 58	SK 59	SK 5B	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	70	80	90	100	V
Maximum RMS Voltage	VRMS	14	21	28	35	42	49	56	63	70	V
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	70	80	90	100	V
Maximum Average Forward Current See Fig.1	IF(AV)	5.0								Α	
Maximum Peak Forward Surge Current,											
8.3ms single half sine wave superimposed	IFSM	150							Α		
on rated load (JEDEC Method)											
Maximum Forward Voltage at I _F = 5 A (Note 1)	VF	0.55				0.67			0.79		V
Maximum Reverse Current at Ta = 25 °C	lR	0.5								mA	
Rated DC Blocking Voltage (Note 1) Ta = 100 °C	I _{R(H)}	50				25					mA
Junction Temperature Range	TJ	- 65 to + 125 - 65 to + 150					°C				
Storage Temperature Range	Тѕтс	- 65 to + 150								°C	

Notes:

(1) Pulse Test: Pulse Width = $300 \mu s$, Duty Cycle = 2%.

Page 1 of 2 Rev. 04: October 8, 2012



RATING AND CHARACTERISTIC CURVES (SK52 - SK5B)

FIG.1 - FORWARD CURRENT DERATING CURVE

AVERAGE FORWARD CURRENT,

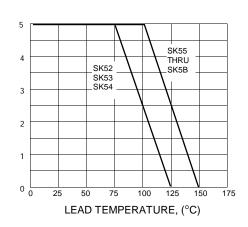


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

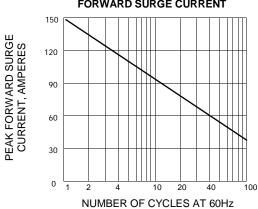


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

FORWARD CURRENT, AMPERES

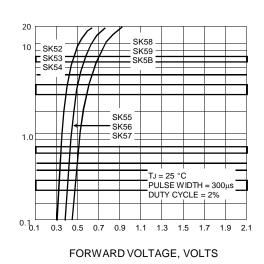
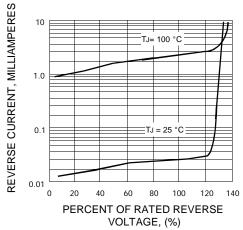


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



Page 2 of 2 Rev. 04: October 8, 2012

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