

SK12 THRU SK125

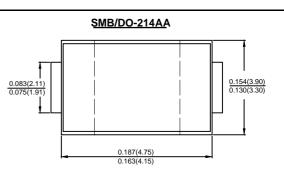
1.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

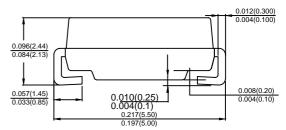
Features

- Schottky Barrier Chip
- Low Power Loss, High Efficiency
- Ideally Suited for Automatic Assembly
- Plastic Case Material has UL Flammability Classification Rating 94V-0

Mechanical Data

- · Case: Molded plastic SMB
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- · Polarity: Color band dentes cathode end
- · Mounting Position: Any
- Making: Type Number





Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load derate current by 20%

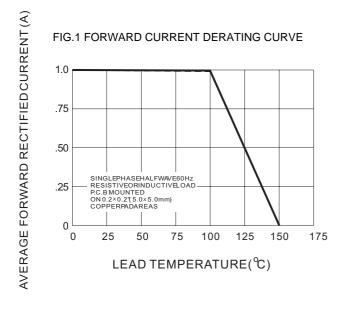
Type Number	SYMBOL	SK 12	SK 13	SK 14	SK 145	SK 15	SK 16		SK 110	SK 115	SK 120	SK 125	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	45	50	60	80	100	150	200	250	V
Maximum RMS Voltage	VRMS	14	21	28	31	35	42	56	70	105	140	175	V
Maximum DC Blocking Voltage	VDC	20	30	40	45	50	60	80	100	150	200	250	V
Average Rectified Output Current @T _L =100°C	lf(AV)	1.0											А
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	FSM	30											А
Forward Voltage @IF=1.0A (Note 1)	Vfm	0.55			0.7	7	0).85	0	.92	0.95	V	
Peak Reverse Current @T _A =25°C		0.1								0.05			
At Rated DC Blocking Voltage @T _A =100 °C	IR	10 5										mA	
I ² t Rating for fusing (t <8.3ms)	l ² t	3.73											A ² s
Typical Junction Capacitance	С	50											pF
Typical Thermal Resistance per leg (Note 2)	R0 JA	88											°C /W
Operating Temperature Range	TJ	-55 to+150											°C
Storage Temperature Range	Тѕтс	-55 to +150											°C

Note: 1.Pulse Test with PW=300usec,1%Duty Cycle.

2.Mounted on P.C.Board with 5.0 mm² (0.13mm thick) copper pad areas.



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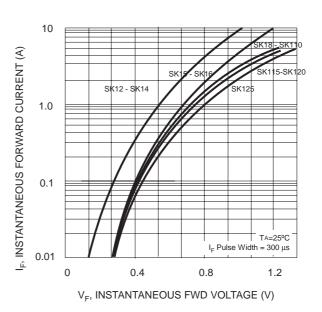


FIG.2TYPICAL INSTANTANEOUS FORWARD CHRACTERISTIC

FIG.3MAXIMUM NON-REPETITIVEPEAKFORWARD SURGE CURRENT



FIG.5 MOUNTING PAD LAYOUT

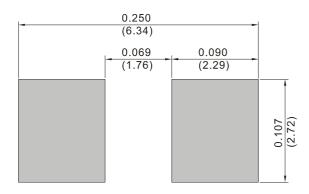
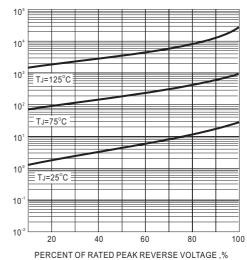


FIG.4TYPICALREVERSE CHRACTERISTIC



REVERSE CURRENT(uA)



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