

SK22 THRU SK225

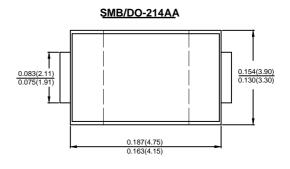
2.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

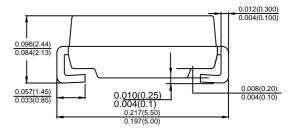
Features

- · 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 22	SK 23	SK 24	SK 245	SK 25	SK 26	SK 28	SK 210	SK 215	SK 220	SK 225	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	45	50	60	80	100	150	200	250	V
Maximum RMS Voltage	V _{RMS}	14	21	28	31	35	42	56	70	105	140	175	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	45	50	60	80	100	150	200	250	V
Average Rectified Output Current @T _L =100°C	lf(AV)	2.0											А
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	50											А
Forward Voltage @IF=2.0A	V _{FM}	0.55				0.	7	0	.85 0		.92	0.95	V
Peak Reverse Current @T _A =25°C	0.1 0.05										mA		
At Rated DC Blocking Voltage @TA =100°C	lr	10							5			mA	
I ² t Rating for fusing (t <8.3ms)	I ² t	10.37											A ² s
Typical Junction Capacitance (Note 2)	Сı	50											pF
Typical Thermal Resistance per leg (Note 3)	Re JA	95											°C/W
Operating Temperature Range	TJ	-55 to+150											$^{\circ}$ C
Storage Temperature Range	T _{STG}	-55 to +150											$^{\circ}\!\mathbb{C}$

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

- 2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
- 3. Thermal Resistance from Junction to lead mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas.



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AVERAGE FORWARD RECTIFIED CURRENT (A)

F IG.1 FORWARD CURRENT DERATING CURVE

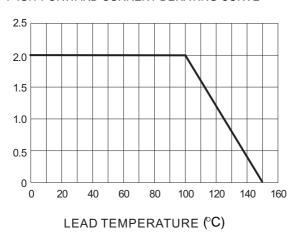


FIG.2TYPICAL INSTANTANEOUS FORWARD CHRACTERISTIC

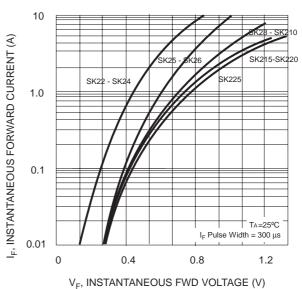


FIG.3MAXIMUM NON-REPETITIVEPEAKFORWARD SURGE CURRENT

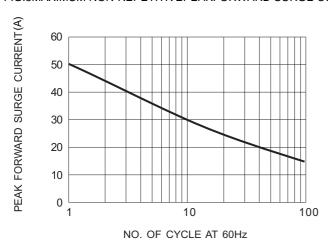
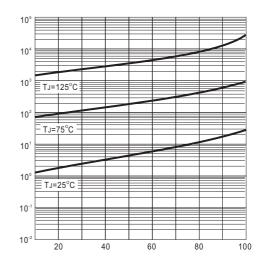


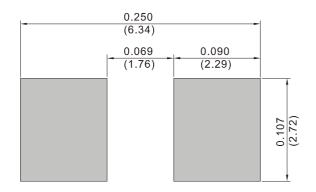
FIG.4TYPICALREVERSE CHRACTERISTIC



PERCENT OF RATED PEAK REVERSE VOLTAGE,%

REVERSE CURRENT (uA)

FIG.5 MOUNTING PAD LAYOUT



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