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GOOD-ARK

SK22 THRU SK2B

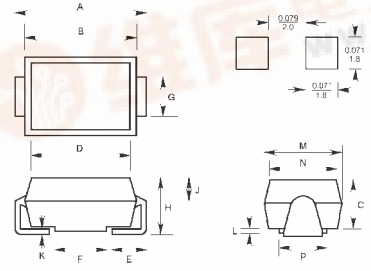
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 Volts
Forward Current - 2.0 Amperes

Features

- Plastic package has underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low V_F
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed: 260℃/10 seconds at terminals

SMA



DIMENSIONS					
DIM	inches		mm		Note
	Min.	Max.	Min.	Max.	
A	0.216	0.226	5.48	5.74	
B	0.176	0.182	4.48	4.63	
C	0.094	0.100	2.40	2.55	
D	0.170	0.176	4.33	4.48	
E	0.039	0.055	1.00	1.40	
F	0.080	0.081	2.03	2.07	
G	0.068	0.083	1.72	2.10	
H	0.112	0.118	2.85	3.00	
J	0.057	-	1.44	-	
K	-	0.018	-	0.45	
L	0.016	-	0.40	-	
M	0.109	0.115	2.77	2.93	
N	0.105	0.107	2.67	2.73	
P	0.078	0.081	2.00	2.05	

Mechanical Data

- **Case:** SMA molded plastic
- **Terminals:** Solder plated solderable per MIL-STD-750, method 2026
- **Polarity:** Color band denotes cathode
- **Weight:** 0.004 ounce, 0.11 gram

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.
Resistive or inductive load.

	Symbols	SK22	SK23	SK24	SK25	SK26	SK27	SK28	SK29	SK2B	Units
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	70	80	90	100	Volts
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	49	56	63	70	Volts
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	70	80	90	100	Volts
Maximum average forward rectified current at T_L=105℃ (see Figure 1)	$I_{(AV)}$	2.0									Amps
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method)	I_{FSM}	50.0									Amps
Maximum instantaneous forward voltage at 2.0A (Note 1)	V_F	0.55			0.70			0.85			Volts
Maximum DC reverse current (Note 1) at rated DC blocking voltage T_A=25℃ / T_A=100℃	I_R	0.5 / 20.0									mA
Typical thermal resistance (Note 2)	$R_{\Theta JL}$ / $R_{\Theta JA}$	17.0 / 75.0									℃/W
Operating junction temperature range	T_J	-50 to +125									℃
Storage temperature range	T_{STG}	-50 to +150									℃

Notes:
(1) Pulse test with PW=300μ Sec, 2% Duty Cycle
(2) Mounted on P.C. Board with 8.0mm² (0.013mm thick) copper pad areas

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RATINGS AND CHARACTERISTIC CURVES

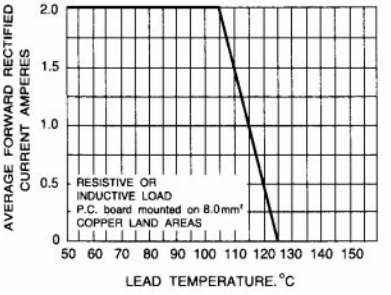

FIG. 1 – FORWARD CURRENT DERATING CURVE

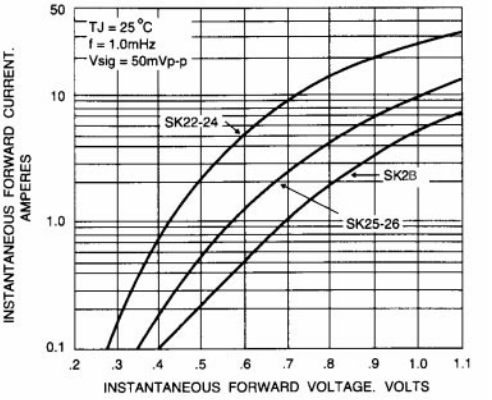

FIG. 2 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

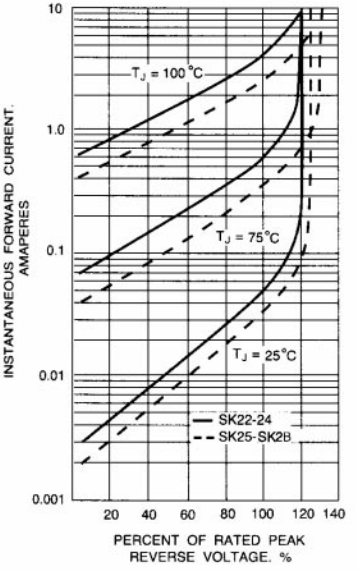

FIG. 3 – TYPICAL REVERSE CHARACTERISTICS

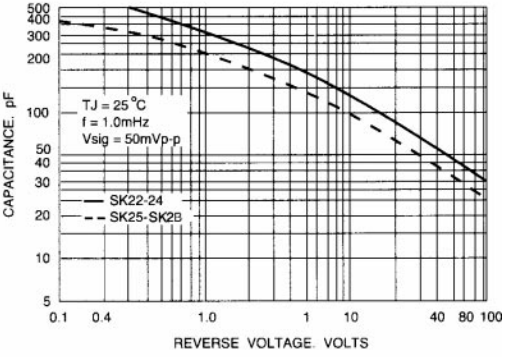

FIG. 4 – TYPICAL JUNCTION CAPACITANCE

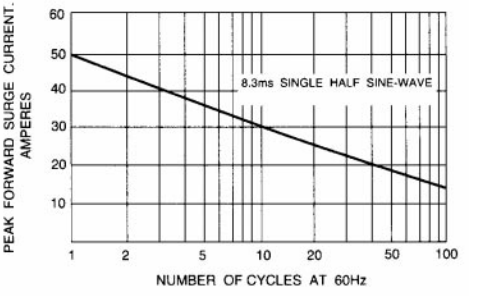

FIG. 5 – MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT