

Surface Mount Schottky Barrier rectifiers

Using the Schottky Barrier principle with a Molybdenum barrier meta. These state-of-the-art geometry features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for low voltage, high frequency rectification, or as free wheeling and polarity protection diodes, in surface mount applications where compact size and weight are critical to the system.

- *Low Forward Voltage.
- *Low Switching noise.
- * High Current Capacity
- * Guarantee Reverse Avalanche.
- * Guard-Ring for Stress Protection.
- *Low Power Loss & High efficiency.
- *125°C Operating Junction Temperature
- * Low Stored Charge Majority Carrier Conduction.
- * Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O
- Mechanical Data
- *Case:Molded Plastic
- *Termals:Plated lead,solderable per MIL-STD-750, Method 2026
- * Plolarity: Indicated by Cathode band
- *Weight:0.002 ounce,0.064 gram

Plating pb free is indicated by box

MAXIMUM RATINGS

Characteristic	Symbol	SKM34	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	40	V
RMS Reverse Voltage	V _{R(RMS)}	28	V
Average Rectifier Forward Current	Ιo	3.0	А
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	30	A
Operating and Storage Junction Temperature Range	T_J , T_STG	-65 to +125	°C

ELECTRICAL CHARACTERISTICS

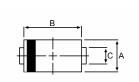
Characteristic	Symbol		SKM34		Unit
Maximum Instantaneous Forward Voltage (I _F =0.1 Amp) (I _F =3.0 Amp)	VF	Min 	Typ. 0.30 0.52	Max 0.31 0.53	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, T_C = 25 $^\circ C$) (Rated DC Voltage, T_C = 125 $^\circ C$)	I _R		0.03 12	0.05 15	mA
Maxmum Thermal Resistance Junction to Lead (Note.1)	R _{thjL}		20.0		°C/W
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	CP		100		₽F
Note:					

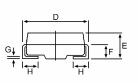
1. Mounted 1 inch square PCB



SCHOTTKY BARRIER RECTIFIERS







DIM	MILLIMETERS		
DIN	MIN	MAX	
А	2.20	2.80	
В	4.10	4.70	
С	1.30	1.70	
D	4.70	5.30	
Е	1.90	2.50	
F		1.30	
G		0.30	
Н	0.95	1.50	

CASE---Transfer molded plastic

OLARITY---Cathode indicated polarity band

SKM34

FIG-1 FORWARD CURRENT DERATING CURVE

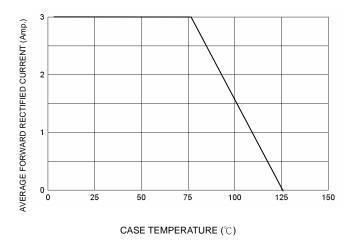
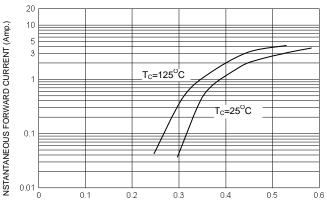
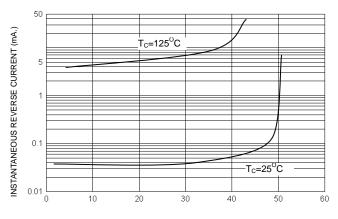


FIG-2 TYPICAL FORWARD CHARACTERISITICS



FORWARD VOLTAGE (Volts)

FIG-3 TYPICAL REVERSE CHARACTERISTICS

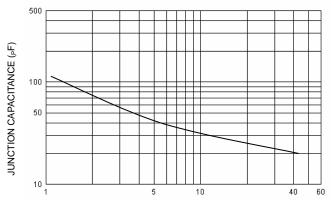


PERCENT OF RATED REVERSE VOLTAGE

FIG-5 PEAK FORWARD SURGE CURRENT

NUMBER OF CYCLES AT 60 Hz

FIG-4 TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE (Volts)