

Surface Mount Schottky Barrier rectifiers

Using the Schottky Barrier principle with a Refractory barrier metal. 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.

Features

- *Low Forward Voltage.
- *Low Switching noise.
- * High Current Capacity
- * Guarantee Reverse Avalanche.
- * Guard-Ring for Stress Protection.
- *Low Power Loss & High efficiency.
- *High Operating Junction Temperature
- *Low Stored Charge Majority Carrier Conduction.
- * Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O
- *Pb free
- * In compliance with EU RoHs directives



MAXIMUM RATINGS

Characteristic	Symbol	SK34	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	40	٧
RMS Reverse Voltage	V _{R(RMS)}	28	V
Average Rectifier Forward Current	I _O	3.0	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-ware, single phase, 60Hz)	I _{FSM}	70	Α
Operating and Storage Junction Temperature Range	T_{J} , T_{STG}	-65 to +150	$^{\circ}\!\mathbb{C}$

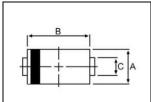
ELECTRICAL CHARACTERISTICS

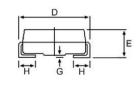
ELECTRICAL CHARACTERIOTICS			
Characteristic	Symbol	SK34	Unit
Maximum Instantaneous Forward Voltage ($I_F = 3 \text{ Amp}$)	V _F	0.55	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^{\circ}C$) (Rated DC Voltage, $T_C = 125^{\circ}C$)	I _R	0.5 20	mA
Maximum Thermal Resistance Junction to Case	Rejc	60	°C/w
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	СР	210	₽F

SCHOTTKY BARRIER RECTIFIERS

3.0 AMPERES 40 VOLTS



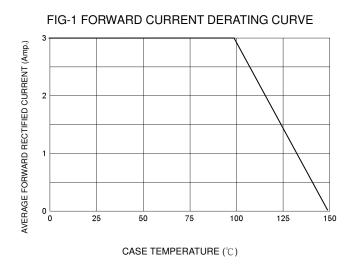


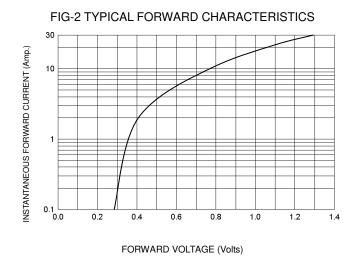


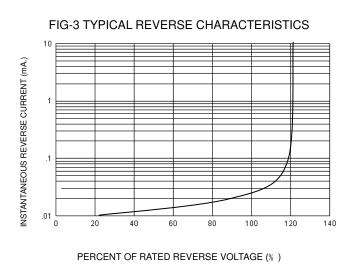
DIM	MILLIMETERS		
DIIVI	MIN	MAX	
Α	2.20	2.80	
В	3.90	4.50	
С	1.30	1.70	
D	4.70	5.30	
Ε	1.90	2.50	
G		0.20	
Н	0.75	1.55	

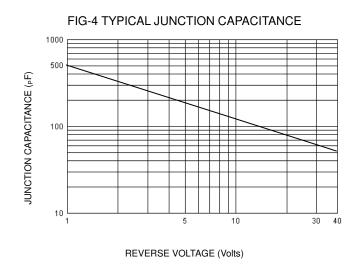
CASE---Transfer molded plastic

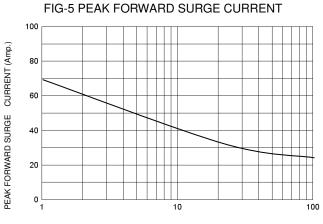
OLARITY---Cathode indicated polarity band











NUMBER OF CYCLES AT 60 Hz



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