

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	SKM24	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	Io	2.0	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)		30	А
Operating and Storage Junction Temperature Range	T_{J} , T_{STG}	-65 to +125	ပ

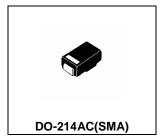
ELECTRICAL CHARACTERISTICS

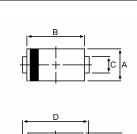
22201110712 0117117101100						
Characteristic	Symbol	SKM24		Unit		
Maximum Instantaneous Forward Voltage ($I_F = 0.1 \text{ Amp}$) ($I_F = 2.0 \text{ Amp}$)	V _F	Min 	Typ. 0.30 0.50	Max 0.31 0.51	V	
Maximum Instantaneous Reverse Current (Rated DC Voltage, T_C = 25 $^{\circ}$ C) (Rated DC Voltage, T_C = 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)	C _P		100		₽F	

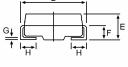
Note:
1. Mounted 1 inch square PCB

SCHOTTKY BARRIER RECTIFIERS

2.0 AMPERES 40 VOLTS







DIM	MILLIMETERS		
DIIVI	MIN	MAX	
Α	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

FIG-1 FORWARD CURRENT DERATING CURVE

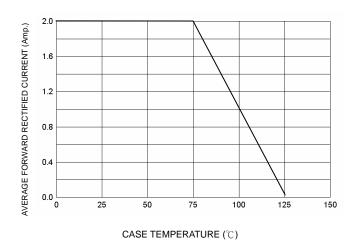
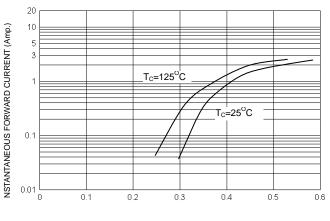
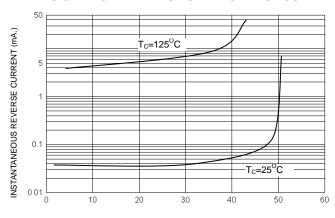


FIG-2 TYPICAL FORWARD CHARACTERISITICS



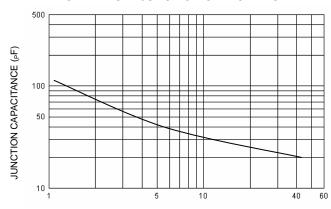
FORWARD VOLTAGE (Volts)

FIG-3 TYPICAL REVERSE CHARACTERISTICS



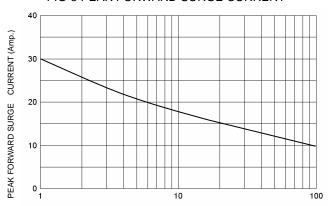
PERCENT OF RATED REVERSE VOLTAGE

FIG-4 TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE (Volts)





NUMBER OF CYCLES AT 60 Hz



Notice

MOSPEC reserves the rights to make changes of the content herein the document anytime without notification. MOSPEC or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies. Please refer to MOSPEC website for the last document.

MOSPEC disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially incurred.

Application shown on the herein document are examples of standard use and operation. Customers are responsible for comprehending suitable use in particular applications. MOSPEC makes no representation or warranty that such application will be suitable for the specified use without further testing or modification.

The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by MOSPEC for any infringements of patents or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of MOSPEC or others.

These MOSPEC products are intended for usage in general electronic equipment. Please make sure to consult with MOSPEC before you use these MOSPEC products in equipment which require specialized quality and/or reliability, and in equipment which could have major impact to the welfare of human life (atomic energy control, aeronautics, traffic control, combustion control, safety devices etc.)