

Surface Mount **Schottky Barrier rectifiers**

Using the Schottky Barrier principle with a Molybdenum 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.

Feaures

- *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	SK12	SK13	SK14	SK15	SK16	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	20	30	40	50	60	V
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	35	42	٧
Average Rectifier Forward Current	lo	1.0		Α			
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-ware, single phase, 60Hz)	I _{FSM}	25			А		
Operating and Storage Junction Temperature Range	T _J , T _{STG}	-65 to +150			$^{\circ}\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$		

FLECTRICAL CHARACTERISTICS

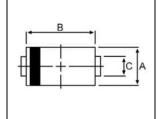
LLLOTTIONL OTHER TROPIC							
Characteristic	Symbol	SK12	SK13	SK14	SK15	SK16	Unit
Maximum Instantaneous Forward Voltage ($I_F = 1.0 \text{ Amp}$)	V _F	0.55		0.70		V	
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^{\circ}C$) (Rated DC Voltage, $T_C = 100^{\circ}C$)	I _R	0.5 10				mA	
Maximum Thermal Resistance Junction to Case	R _{eJC}	60			°C/W		
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	СР	90		80		₽F	

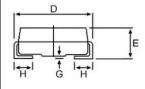
SCHOTTKY BARRIER **RECTIFIERS**

1.0 AMPERES 20-60 VOLTS



DO-214AC(SMA)





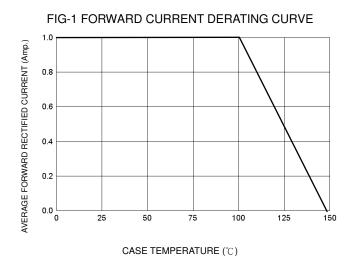
DIM	MILLIMETERS			
ואווט	MIN	MAX		
Α	2.20	2.80		
В	3.90	4.50		
С	1.30	1.70		
D	4.70	5.30		
Ε	1.90	2.50		
G		0.20		
Н	0.75	1.55		

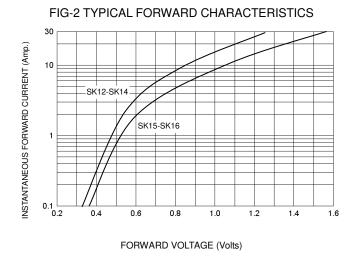
CASE---

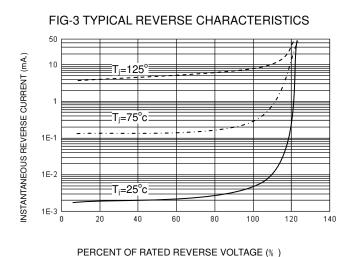
Transfer molded plastic

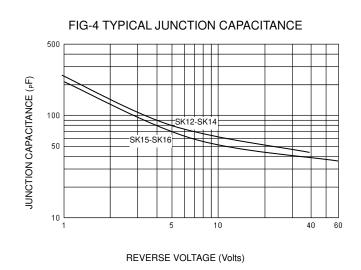
OLARITY---Cathode indicated polarity band

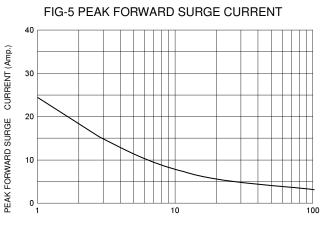














Notice

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.)