

## 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.

#### **Features**

- \*Low Forward Voltage.
- \*Low Switching noise.
- \*High Current Capacity
- \* Guarantee Reverse Avalanche.
- \* Guard-Ring for Stress Protection.
- \*Low Power Loss & High efficiency.
- \* 150° C Operating Junction Temperature
- \*Low Stored Charge Majority Carrier Conduction.
- \* Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O
- \*Moisture Sensitivity Level: MSL-1



\* In compliance with EU RoHs 2002/95/EC directives

# **MAXIMUM RATINGS**

Characteristic	Symbol	SK22	SK23	SK24	SK25	SK26	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	20	30	40	50	60	<b>V</b>
RMS Reverse Voltage	V <sub>R(RMS)</sub>	14	21	28	35	42	V
Average Rectifier Forward Current	Io	2.0			Α		
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I <sub>FSM</sub>	50			Α		
Storage Junction Temperature Range	T <sub>STG</sub>	-65 to +150			$^{\circ}$		

#### **ELECTRICAL CHARACTERISTICS**

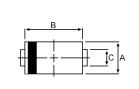
Characteristic	Symbol	SK22	SK23	SK24	SK25	SK26	Unit
Maximum Instantaneous Forward Voltage ( I <sub>F</sub> =2.0 Amp )	V <sub>F</sub>		0.55		0.	70	٧
Maximum Instantaneous Reverse Current ( Rated DC Voltage, $T_C = 25^{\circ}C$ ) ( Rated DC Voltage, $T_C = 100^{\circ}C$ )	I <sub>R</sub>	0.5 10				mA	
Maximum Thermal Resistance Junction to Case	$R_{ heta JC}$	80			°C/W		
Typical Junction Capacitance ( Reverse Voltage of 4 volts & f=1 MHz )	$C_P$		90		8	0	₽F

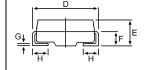
### SCHOTTKY BARRIER RECTIFIERS

2.0 AMPERES 20-60 VOLTS



DO-214AC(SMA)



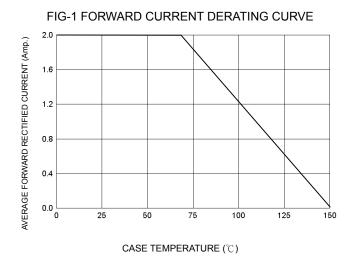


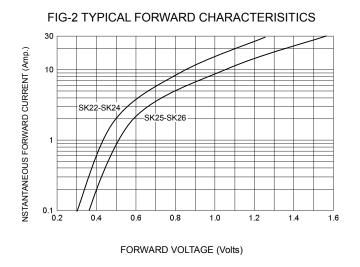
DIM	MILLIMETERS				
DIIVI	MIN	MAX			
Α	2.20	2.80			
В	4.10	4.70			
С	1.30	1.70			
D	4.70	5.30			
Ε	1.90	2.50			
F		1.30			
G		0.30			
Н	0.95	1.50			

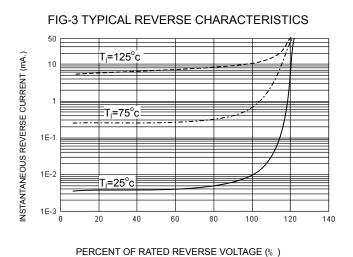
CASE---

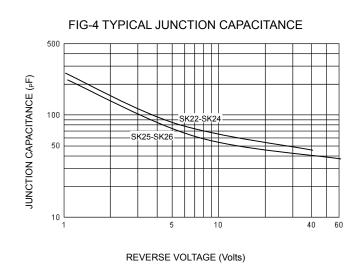
Transfer molded plastic

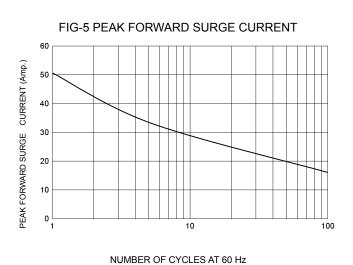
OLARITY---Cathode indicated polarity band













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