

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.
- *150°C 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	SK17	SK18	SK19	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	70	80	90	V
RMS Reverse Voltage	V _{R(RMS)}	49	56	63	V
Average Rectifier Forward Current	Io	1.0		А	
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	25		А	
Operating and Storage Junction Temperature Range	T _J , T _{STG}	-65 to +150		$^{\circ}\!\mathbb{C}$	

ELECTRICAL CHARACTERISTICS

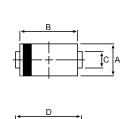
ELECTRICAL CHARACTERIOTICS						
Characteristic	Symbol	SK17	SK18	SK19	Unit	
Maximum Instantaneous Forward Voltage (I _F =1 Amp)	V _F	0.75		0.85	>	
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^{\circ}C$) (Rated DC Voltage, $T_C = 100^{\circ}C$)	I _R	0.1 5			mA	
Maxmum Thermal Resistance Junction to case	R_{thjC}	65			°C/W	
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C_P	70		60	₽F	

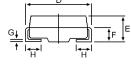
SCHOTTKY BARRIER RECTIFIERS

1.0 AMPERES 100 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	
Е	1.90	2.50	
F		1.30	
G		0.22	
Н	0.95	1.50	

CASE---

Transfer molded plastic

OLARITY---Cathode indicated polarity band





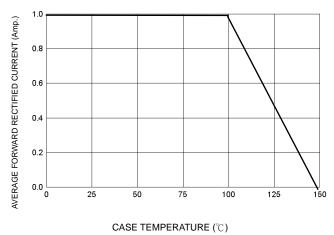
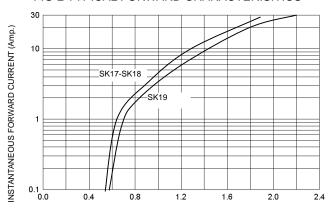
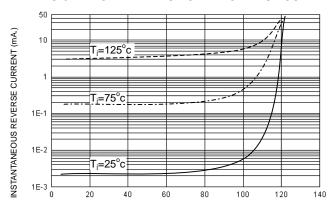


FIG-2 TYPICAL FORWARD CHARACTERISITICS



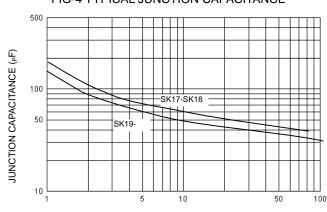
FORWARD VOLTAGE (Volts)

FIG-3 TYPICAL REVERSE CHARACTERISTICS



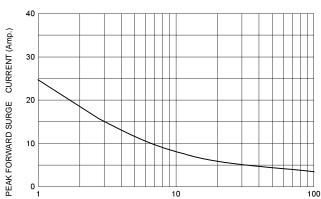
PERCENT OF RATED REVERSE VOLTAGE (%)

FIG-4 TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE (Volts)

FIG-5 PEAK FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60 Hz



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