

Schottky Barrier Rectifiers

Using the Schottky Barrier principle with a Refractory metal capable of high temperature operation metal. proprietary barrier technology allows for reliable operation up to 150 junction temperature. Typical application are in switching Mode Power Supplies such as adaptors, DC/DC converters free- wheeling and polarity protection diodes.

Features

- * Low Forward Voltage.
- * Low Switching noise.
- * High Current Capacity
- * Guarantee Reverse Avalanche.
- * Guard-Ring for Stress Protection.
- *Low Power Loss & High efficiency.
- * 150 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	SK220	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	200	V
RMS Reverse Voltage	V _{R(RMS)}	140	V
Average Rectifier Forward Current	I _O	2.0	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	50	А
Operating and Storage Junction Temperature Range	T_{J} , T_{STG}	-65 to +150	

ELECTRIAL CHARACTERISTICS

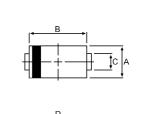
Characteristic	Symbol	SK220	Unit
Maximum Instantaneous Forward Voltage (I _F =2.0 Amp.)	V_{F}	0.95	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25$) (Rated DC Voltage, $T_C = 125$)	I _R	0.01 10	mA
Maximum Thermal Resistance Junction to case	$R_{ heta JC}$	55	/W
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C_P	80	₽F

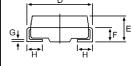
SCHOTTKY BARRIER RECTIFIERS

2.0 AMPERES 200 VOLTS



DO-214AC(SMA)





DIM	MILLIM	ETERS
DIIVI	MIN	MAX
Α	2.20	2.80
В	4.10	4.70
C	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

POLARITY---Cathode indicated polarity band



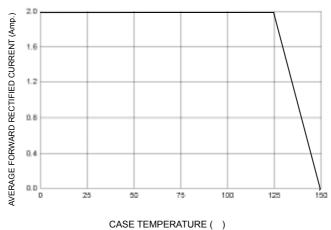


FIG-2 TYPICAL FORWARD CHARACTERISITICS

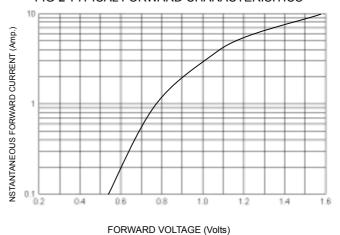
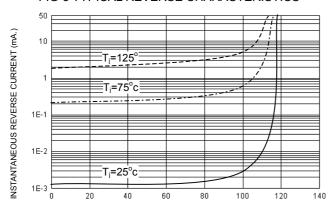
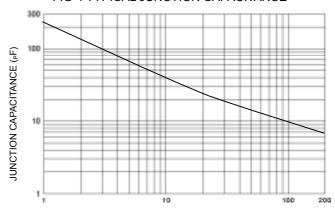


FIG-3 TYPICAL REVERSE CHARACTERISTICS

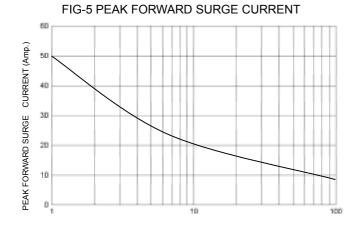


PERCENT OF RATED REVERSE VOLTAGE (%)

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.)