MOSPEC

SK36

Surface Mount
Schottky Barrier Rectifiers

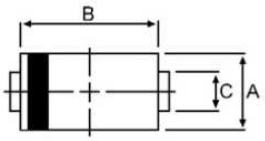
Using the Schottky Barrier principle with a refractory metal capable of high temperature operation metal. The proprietary barrier technology allows for reliable operation up to 150℃ junction temperature. Typical applications are in switching mode power supplies such as adaptors, DC/DC converters free-wheeling and polarity protection diodes.

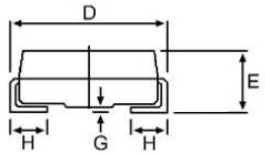
- ＊Low Forward Voltage.
- ＊Low Switching noise.
- ＊High Current Capacity
- ＊Guarantee Reverse Avalanche.
- ＊Guard-Ring for Stress Protection.
- ＊Low Power Loss & High efficiency.
- ＊High Operating Junction Temperature
- ＊Low Stored Charge Majority Carrier Conduction.
- ＊Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O
- ＊Pb free
- ＊In compliance with EU RoHs directives

SCHOTTKY BARRIER RECTIFIERS

3.0 AMPERES
60 VOLTS

DO-214AC(SMA)





DIM	MILLIMETERS	
	MIN	MAX
A	2.20	2.80
B	3.90	4.50
C	1.30	1.70
D	4.70	5.30
E	1.90	2.50
G	--	0.22
H	0.75	1.55

CASE---
Transfer molded plastic

OLARITY---
Cathode indicated polarity band

MAXIMUM RATINGS

Characteristic	Symbol	SK36	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	60	V
RMS Reverse Voltage	$V_{R(RMS)}$	42	V
Average Rectifier Forward Current	I_O	3.0	A
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-ware, single phase, 60Hz)	I_{FSM}	70	A
Operating and Storage Junction Temperature Range	T_J , T_{STG}	-65 to +150	℃

ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Maximum Instantaneous Forward Voltage (I_F =3.0 Amp, T_C = 25℃) (I_F =3.0 Amp, T_C = 125℃)	V_F	--- ---	0.65 0.55	0.70 ---	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, T_C = 25℃) (Rated DC Voltage, T_C = 125℃)	I_R	--- ---	0.001 786	500 ---	uA
Maximum Thermal Resistance Junction to case	$R_{\theta JC}$		60		℃/W
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C_P		160		pF

FIG-1 FORWARD CURRENT DERATING CURVE

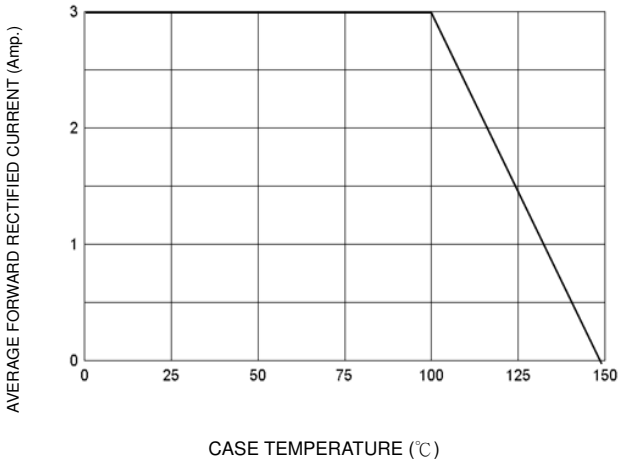


FIG-2 TYPICAL FORWARD CHARACTERISTICS

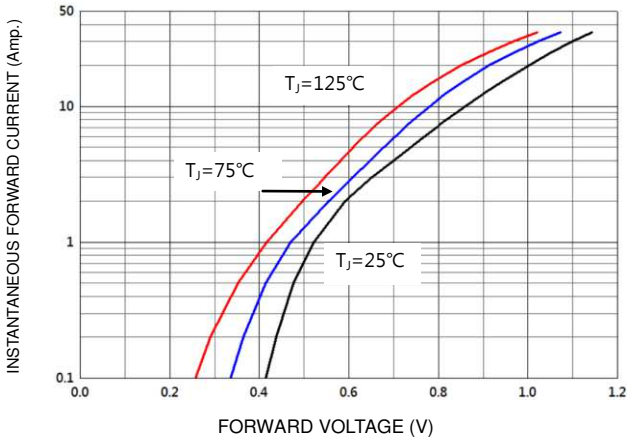


FIG-3 TYPICAL REVERSE CHARACTERISTICS

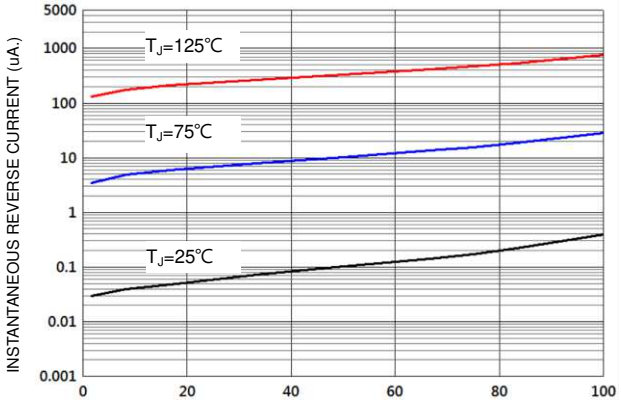


FIG-4 TYPICAL JUNCTION CAPACITANCE

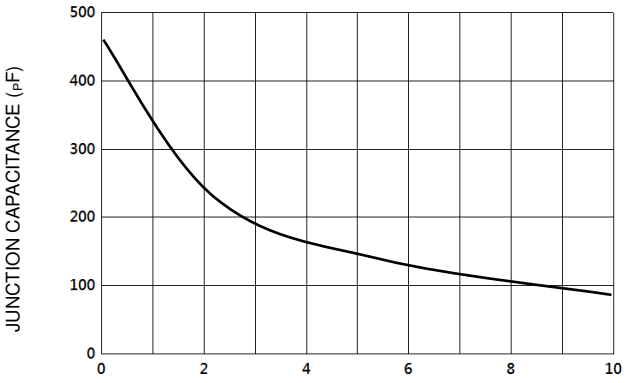
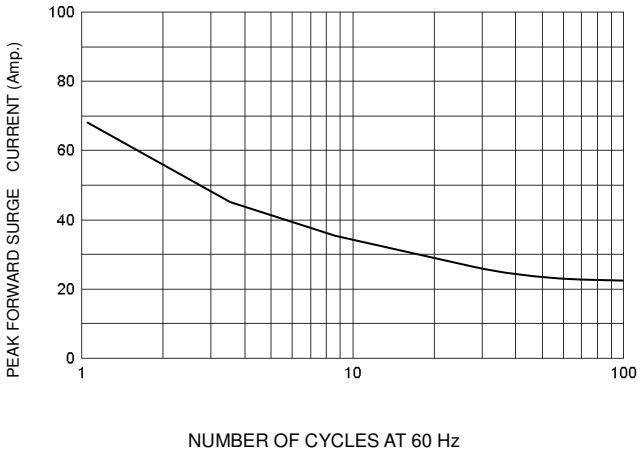


FIG-5 PEAK FORWARD SURGE CURRENT



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