

S20C60C

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.

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
- * ESD: 4KV(Min.) Human-Body Model
- * Flammability Classification 94V-O
- * Pb free
- * In compliance with EU RoHs directives

MAXIMUM RATINGS

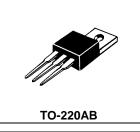
Characteristic		S20C60C	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		60	V
RMS Reverse Voltage	$V_{R(RMS)}$	42	V
Average Rectifier Forward Current $(Per diode)$ Total Device (Rated V _R), T _C =125°C	I _{F(AV)}	10 20	А
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	20	А
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	200	A
Operating and Storage Junction Temperature Range	T _J , T _{stg}	-65 to +150	°C

THERMAL RESISTANCES

Typical Thermal Resistance junction to case	$R_{ extsf{ heta}_{jc}}$	3.8	°C/w
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ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	S20C60C	Unit
Maximum Instantaneous Forward Voltage (I _F =10 Amp T _C = 25°C) (I _F =10 Amp T _C = 100°C)	VF	0.70 0.60	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, T _C = 25℃) (Rated DC Voltage, T _C = 100℃)	I _R	0.5 20	mA

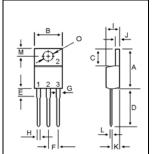


SCHOTTKY BARRIER

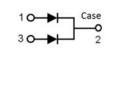
RECTIFIERS

20 AMPERES

60 VOLTS



Г	ым	MILLIMETERS		
DIN		MIN	MAX	
	А	14.68	16.00	
	В	9.78	10.42	
	С	5.02	6.60	
	D	13.00	14.62	
	Е	3.10	4.19	
	F	2.41	2.67	
	G	1.10	1.67	
	н	0.69	1.01	
	I I	3.21	4.98	
	J	1.14	1.40	
	K	2.20	3.30	
	L	0.28	0.61	
	М	2.48	3.00	
	0	3.50	4.00	



S20C60C

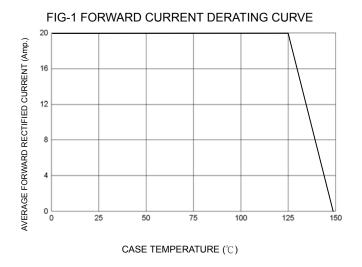
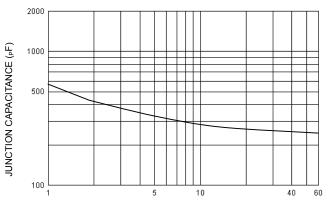


FIG-2 TYPICAL FORWARD CHARACTERISTICS

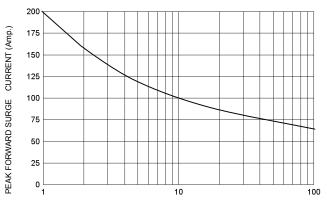
FORWARD VOLTAGE (Volts)

FIG-3 TYPICAL REVERSE CHARACTERISTICS 50 INSTANTANEOUS REVERSE CURRENT (mA.) 10 T_=100℃ 1 Г**,**=75℃ 0.1 0.01 _=25℃ 0.001 10 20 30 40 50 60 70 **REVERSE VOLTAGE (V)**

FIG-4 TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE (Volts)



NUMBER OF CYCLES AT 60 Hz

FIG-5 PEAK FORWARD SURGE CURRENT



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