

Schottky Barrier Rectifiers

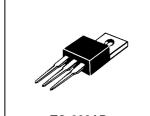
Using the Schottky Barrier principle with a Molybdenum barrier metal. These state-of-the-art geometry features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for low voltage, high frequency rectification, or as free wheeling and polarity protection diodes.

- * 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

SCHOTTKY BARRIER RECTIFIERS

30 AMPERES 150 VOLTS



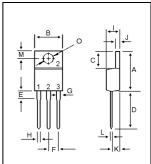
TO-220AB

MAXIMUM RATINGS

Characteristic	Symbol	S30C150CE	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	150	V
RMS Reverse Voltage	V _{R(RMS)}	105	V
Average Rectifier Forward Current Total Device (Rated V _R), T _C =100	I _{F(AV)}	15 30	А
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	30	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-wave, single phase, 60Hz)	I _{FSM}	200	А
Operating and Storage Junction Temperature Range	T_J , T_stg	-65 to +150	

ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	S30C150CE	Unit
Maximum Instantaneous Forward Voltage ($I_F = 15 \text{ Amp } T_C = 25$) ($I_F = 15 \text{ Amp } T_C = 125$)	V _F	0.95 0.85	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25$) (Rated DC Voltage, $T_C = 125$)	I _R	0.5 30	mA



DIM	MILLIMETERS	
Dilvi	MIN	MAX
Α	14.68	15.32
В	9.78	10.42
С	5.02	6.52
D	13.06	14.62
E	3.57	4.07
F	2.42	2.66
G	1.12	1.36
Н	0.72	0.96
- 1	4.22	4.98
J	1.14	1.38
K	2.20	2.98
L	0.33	0.55
M	2.48	2.98
0	3.70	3.90

