

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

Flammability Classification 94V-O

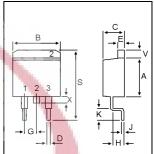
- *ESD: 8KV(Min.) Human-Body Model
- * In compliance with EU RoHs 2002/95/EC directives

SCHOTTKY BARRIER RECTIFIERS

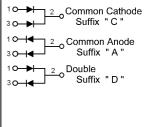
16 AMPERES 30-60 VOLTS



TO-263 (D2-PAK)



DIM	MILLIMETERS					
	MIN	MAX				
Α	8.12	8.92				
В	9.90	10.30				
С	4.23	4.83				
D	0.51	0.89				
E	1.27	1.53				
G	2.54	BSC				
Н	2.03	2.79				
J	0.31	0.51				
K	2.29	2.79				
S	14.60	15.88				
V	1.57	1.83				
X		1.40				

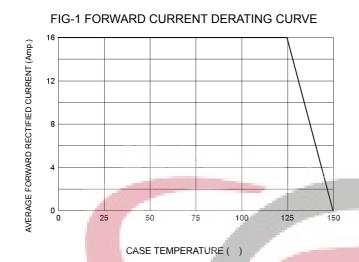


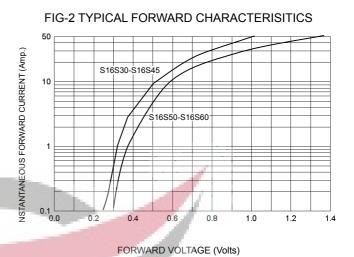
MAXIMUM RATINGS

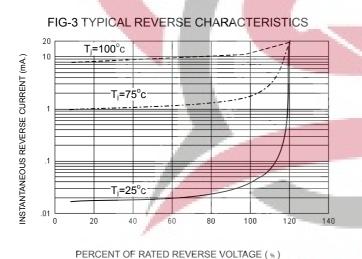
Characteristic	Symbol	S16S						Unit
Characteristic	Symbol	30	35	40	45	50	60	Onit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	35	40	45	50	60	V
RMS Reverse Voltage	V _{R(RMS)}	21	25	28	32	35	42	V
Average Rectifier Forward Current Total Device (Rated V _R), T _C =100	I _{F(AV)}	8.0 16						А
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	16						А
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	150					A	
Operating and Storage Junction Temperature Range	T _J , T _{stg}			-65 to	+150	C	Т	RO

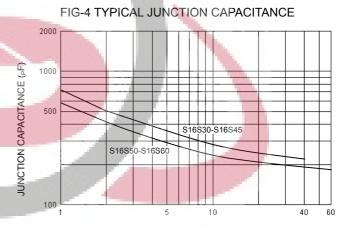
ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	S16S						l lm!t
Characteristic		30	35	40	45	50	60	Unit
Maximum Instantaneous Forward Voltage ($I_F = 8 \text{ Amp } T_C = 25$) ($I_F = 8 \text{ Amp } T_C = 100$)	V _F	0.55 0.48			0.0	V		
Typical Thermal Resistance junction to case	R _{θ j-c}	3.8			3.8			/w
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25$) (Rated DC Voltage, $T_C = 125$)	I _R	0.5 20					mA	

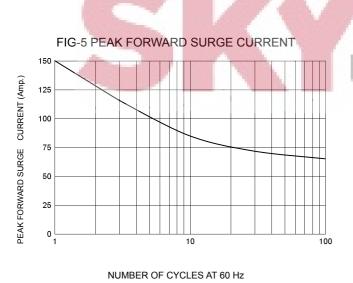








REVERSE VOLTAGE (Volts)



ELECTRONIC