

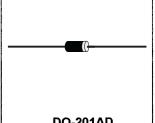
Schottky Barrier Rectifiers

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 Voltag.
- * Low Switching noise.
- * High Current Capacity
- * Guarantee Reverse Avalance.
- * Guard-Ring for Stress Protection.
- * Low Power Loss & High efficiency.
- * 125 °C Operating Junction Temperature
- * Low Stored Charge Majority Carrier Cnduction.
- * Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O

SCHOTTKY BARRIER RECTIFIERS

3.0 AMPERES 20-60 VOLTS



MAXIMUM RATINGS

Characteristic	Symbol		Unit				
		302	303	304	305	306	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	20	30	40	50	60	V
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	35	42	٧
Average Rectifier Forward Current	l _o			3.0			Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware,single phase,60Hz)	FSM	100		Α			
Operating and Storage Junction Temperature Range	T _J , T _{stg}	- 65 to + 125			°C		

ELECTRICAL CHARACTERISTICS

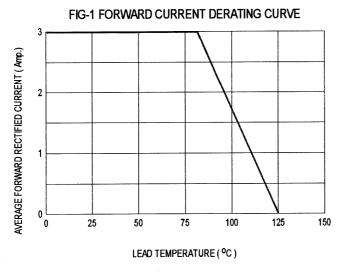
Characteristic	Symbol	SR				Unit	
		302	303	304	305	306	
Maximum Instantaneous Forward Voltage (I_F =3.0 Amp) (I_F =9.0 Amp)	V _F		0.550 0.850			350 950	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_c = 25$ °C) (Rated DC Voltage, $T_c = 100$ °C)	I _R	3.0 50		mA			
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C _P	·	210		19	90	pF

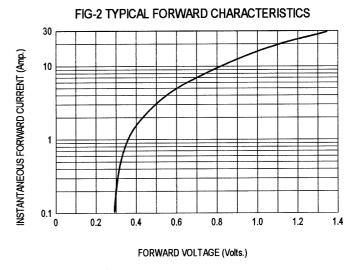
DO-	ZUTAD
A	B C
D	B B

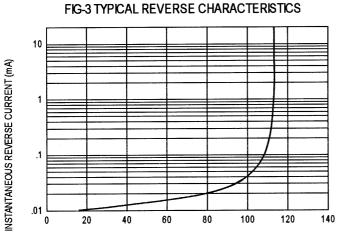
DIM	MILLMETERS		
	MIN	MAX	
Α	5.00	5.60	
В	25.40		
C	8.50	9.50	
D	1.20	1.30	

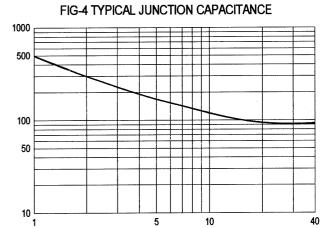
CASE---Transfer molded plastic

POLARITY---Cathode indicated polarity band



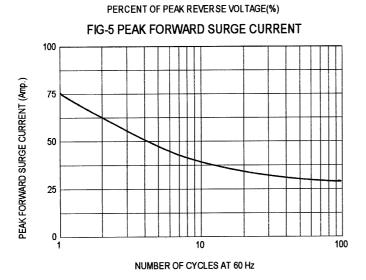


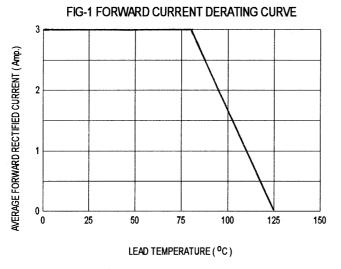


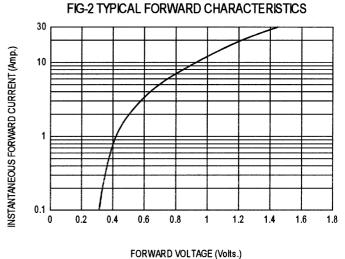


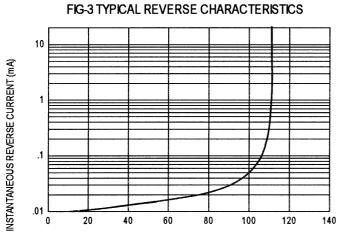
REVERSE VOLTAGE (Volts.)

JUNCTION CAPACITANCE (pF)

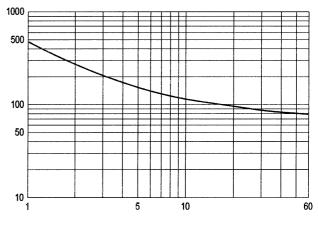






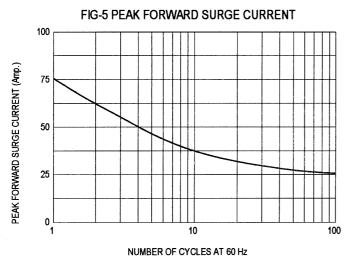






JUNCTION CAPACITANCE (pF)

PERCENT OF PEAK REVERSE VOLTAGE(%)



REVERSE VOLTAGE (Volts.)