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.

SCHOTTKY BARRIER RECTIFIERS

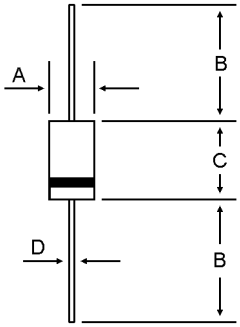
3.0 AMPERES
20-60 VOLTS

DO-201AD

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

∗*In compliance with EU RoHs 2002/95/EC directives*
The marking is indicated by part no. with. “M”. ex:SR302M~SR306M



DIM	MILLIMETERS	
	MIN	MAX
A	5.00	5.60
B	25.40	---
C	7.20	9.50
D	1.20	1.30

CASE---
Transfer molded plastic

POLARITY---
Cathode indicated polarity band

MAXIMUM RATINGS

Characteristic	Symbol	SR					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	$VR_{(RMS)}$	14	21	28	35	42	V
Average Rectifier Forward Current	I_O	3.0					A
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-wave, single phase,60Hz)	I_{FSM}	75					A
Junction Operating Temperature Range Storage Temperature (1)	T_J T_{STG}	-65 to +150 20~35 ℃、30%~60% RH					℃

(1)expired date：1 year

ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	SR					Unit
		302	303	304	305	306	
Maximum Instantaneous Forward Voltage (I_F =3.0 Amp)	V_F	0.550			0.700		V
Maximum Instantaneous Reverse Current (Rated DC Voltage, T_C = 25℃) (Rated DC Voltage, T_C = 125℃)	I_R	0.5 20					mA
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C_P	210			190		pF

SR302 Thru SR306

FIG-1 FORWARD CURRENT DERATING CURVE

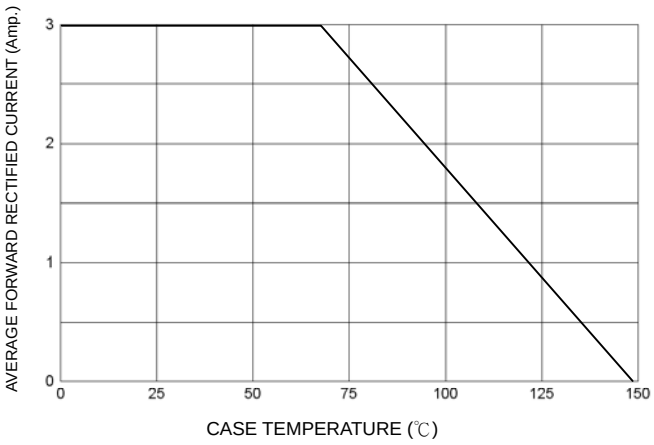


FIG-2 TYPICAL FORWARD CHARACTERISITICS

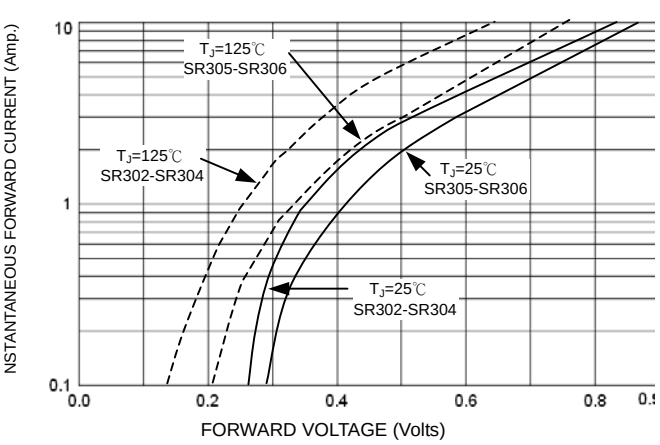


FIG-3 TYPICAL REVERSE CHARACTERISTICS

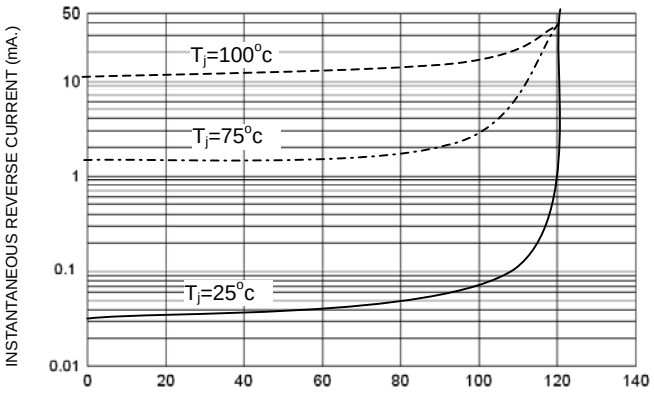


FIG-4 TYPICAL JUNCTION CAPACITANCE

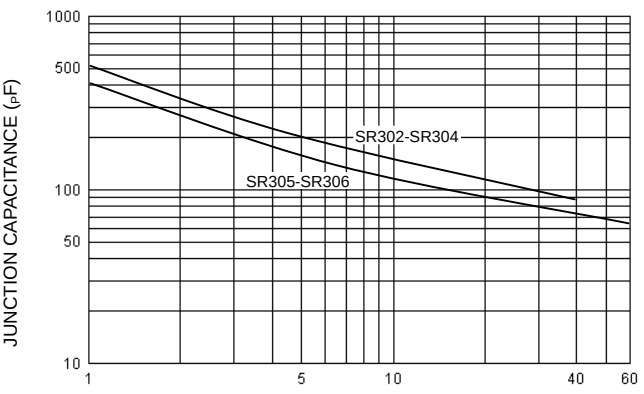
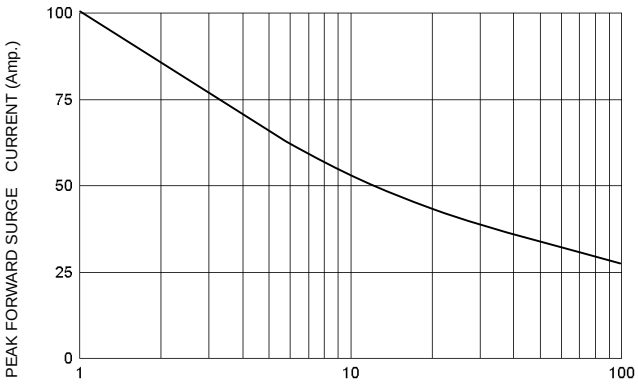


FIG-5 PEAK FORWARD SURGE CURRENT



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Schottky Diodes & Rectifiers ***category:***

Click to view products by Mospec ***manufacturer:***

Other Similar products are found below :

MA4E2039 MA4E2508M-1112 MBR10100CT-BP MBR1545CT MMBD301M3T5G GS1JE-TP RB160M-50TR BAS 3010S-02LRH E6327 BAT 54-02LRH E6327 NSR05F40QNXT5G NSVR05F40NXT5G NTE555 JANS1N6640 SB07-03C-TB-H SB1003M3-TL-W SBAT54CWT1G SBM30-03-TR-E SK310-T SK33A-TP SK34B-TP SS3003CH-TL-E PDS3100Q-7 GA01SHT18 CRS10I30A(TE85L,QM MA4E2501L-1290 MBRB30H30CT-1G BAS 70-02L E6327 DMJ3940-000 SB007-03C-TB-E SB10015M-TL-E SB1003M3-TL-E SK32A-TP SK33B-TP SK35A-TP SK38B-LTP SK38B-TP NTE505 NTSB30U100CT-1G VS-6CWQ10FNHM3 CRG04(T5L,TEMQ) ACDBA1100LR-HF ACDBA1200-HF ACDBA140-HF ACDBA2100-HF ACDBA240-HF ACDBA3100-HF CDBQC0530L-HF BAT54-13-F ACDBA340-HF ACDBA260LR-HF