

5.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

FEATURES

- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Low forward voltage drop

MECHANICAL DATA

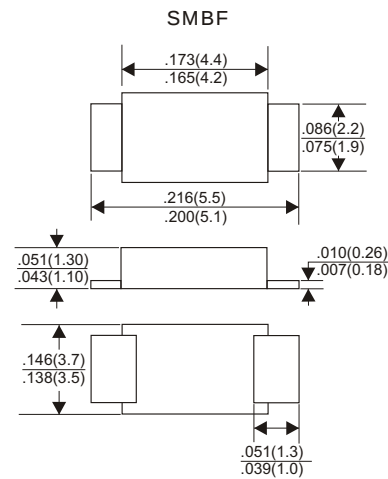
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any

VOLTAGE RANGE

20 to 100 Volts

CURRENT

5.0 Ampere



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	SS52BF	SS53BF	SS54BF	SS55BF	SS56BF	SS58BF	SS59BF	SS510BF	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	90	100	V
Maximum RMS Voltage	14	21	28	35	42	56	63	70	V
Maximum DC Blocking Voltage	20	30	40	50	60	80	90	100	V
Maximum Average Forward Rectified Current At T _L =100°C	5.0								A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	120								A
Maximum Instantaneous Forward Voltage at 5.0A	0.55			0.70		0.85			V
Maximum DC Reverse Current Ta=25°C	0.1					0.02			mA
at Rated DC Blocking Voltage Ta=100°C	5					2			mA
Typical Junction Capacitance (Note1)	380								pF
Typical Thermal Resistance R _{JL} (Note 2)	10								°C/W
Operating Temperature Range T _J	-65 — +150								°C
Storage Temperature Range T _{STG}	-65 — +150								°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Lead.

RATING AND CHARACTERISTIC CURVES (SS52BF THRU SS510BF)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

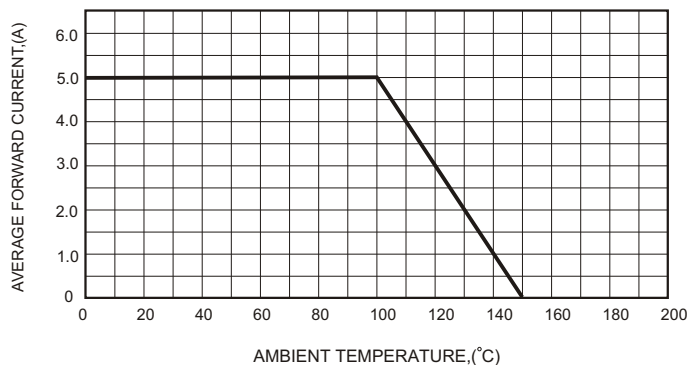


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

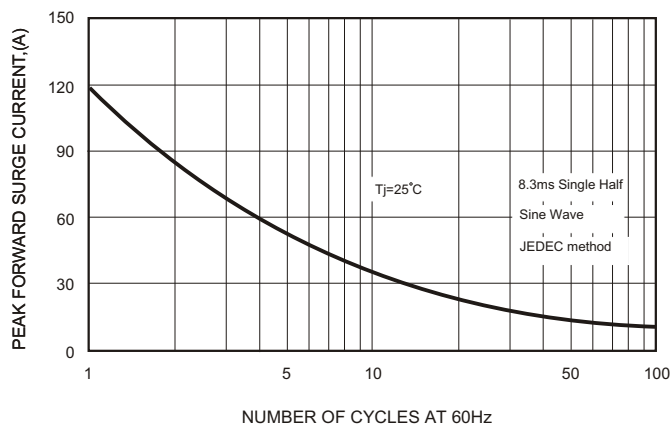


FIG.4-TYPICAL JUNCTION CAPACITANCE

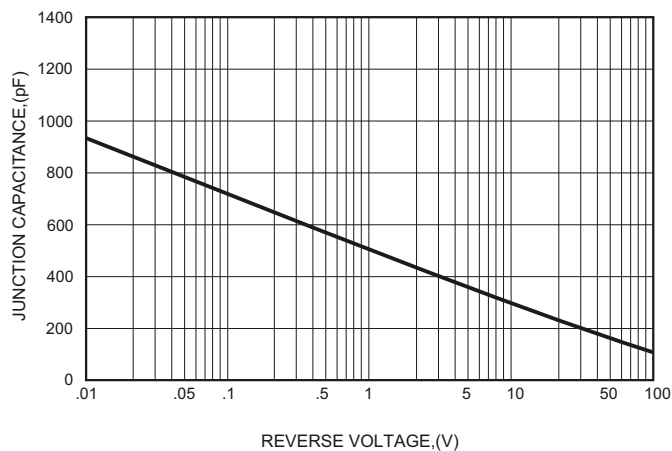


FIG.2-TYPICAL FORWARD CHARACTERISTICS

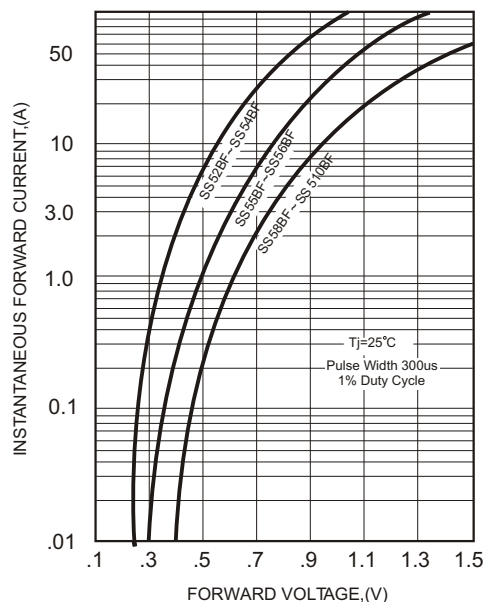
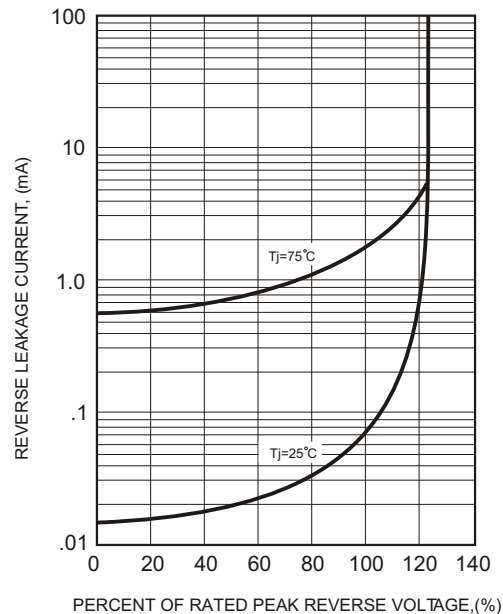


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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 [SLKORMICRO](#) manufacturer:

Other Similar products are found below :

[MMBD301M3T5G](#) [RB160M-50TR](#) [D83C](#) [RKS100KG#P1](#) [BAS 3010S-02LRH E6327](#) [BAT 54-02LRH E6327](#) [NRVBAF360T3G](#)
[NSR05F40QNXT5G](#) [NTE555](#) [SB10-04A3-BT](#) [SBM30-03-TR-E](#) [SBS811-S-TL-E](#) [SBS818-TL-E](#) [SS3003CH-TL-E](#) [STPS30S45CW](#)
[GA01SHT18](#) [CRS10I30A\(TE85L,QM](#) [MBRB30H30CT-1G](#) [BAT 15-04R E6152](#) [IDL08G65C5](#) [JANTX1N5712-1](#) [SB007-03C-TB-E](#)
[SB10015M-TL-E](#) [NRVBB20100CTT4G](#) [NRVBM120LT1G](#) [NTSB30U100CT-1G](#) [STPS40SM100CG-TR](#) [CRG04\(T5L,TEMQ\)](#) [ACDBA240-](#)
[HF](#) [CDBQC0530L-HF](#) [STPS40SM120CTN](#) [NRVBM120ET1G](#) [STPS2545CGY-TR](#) [PDS1040Q-13](#) [B160BQ-13-F](#) [SDM05U20CSP-7](#) [BAS](#)
[70-07 E6433](#) [HSM560Je3/TR13](#) [HSM190Je3/TR13](#) [B330AF-13](#) [ACDBUC0230-HF](#) [MBR10200CTF-G1](#) [CDLL5712](#) [DMF2822-000](#) [VS-](#)
[50WQ04FNTRL-M3](#) [1N5817-G](#) [MBR2060CTF-G1](#) [B350AF-13](#) [MF300A06F2](#) [SEMIX302KD16S](#)