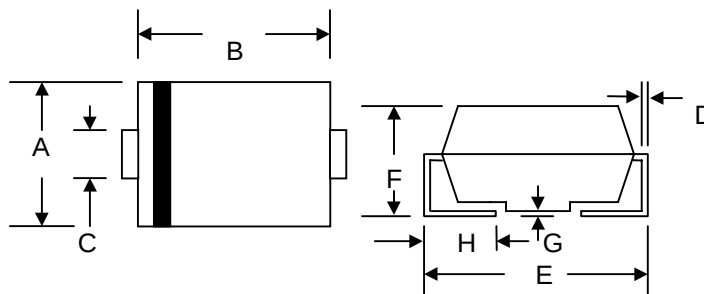


3.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- Surge Overload Rating to 100A Peak
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O



Mechanical Data

- Case: Low Profile Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)

SMA/DO-214AC		
Dim	Min	Max
A	2.50	2.90
B	4.00	4.60
C	1.40	1.60
D	0.152	0.305
E	4.80	5.28
F	2.00	2.44
G	0.051	0.203
H	0.76	1.52
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	SX32	SX33	SX34	SX35	SX36	SX38	SX39	SX310	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	20	30	40	50	60	80	90	100	V
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	35	42	56	63	70	V
Average Rectified Output Current @T _L = 75°C	I _O	3.0								A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	100								A
Forward Voltage @I _F = 3.0A	V _{FM}	0.50			0.75		0.85			V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}	0.5 20								mA
Typical Thermal Resistance Junction to Ambient (Note 1)	R _{θJA}	55								K/W
Operating Temperature Range	T _j	-65 to +125								°C
Storage Temperature Range	T _{STG}	-65 to +150								°C

Note: 1. Mounted on P.C. Board with 14mm² copper pad areas

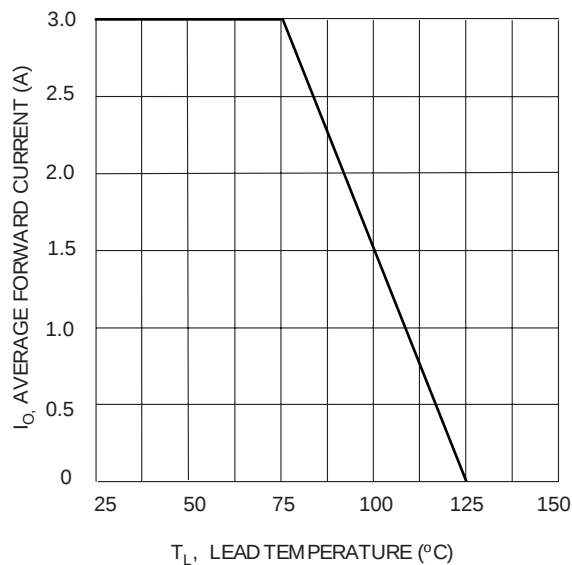


Fig. 1 Forward Current Derating Curve

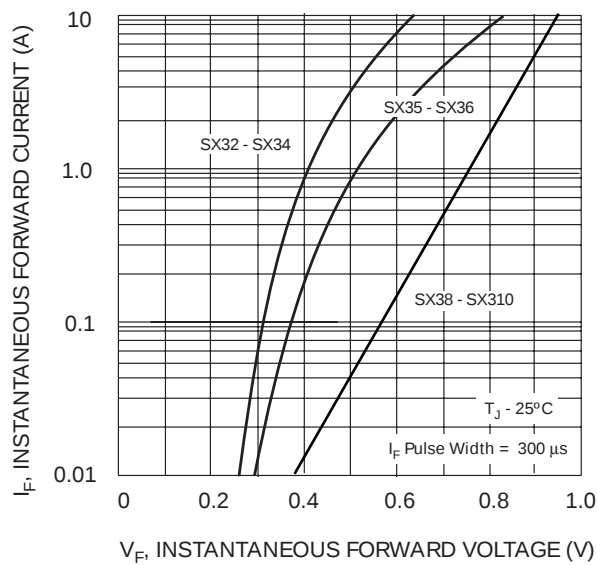


Fig. 2 Typical Forward Characteristics

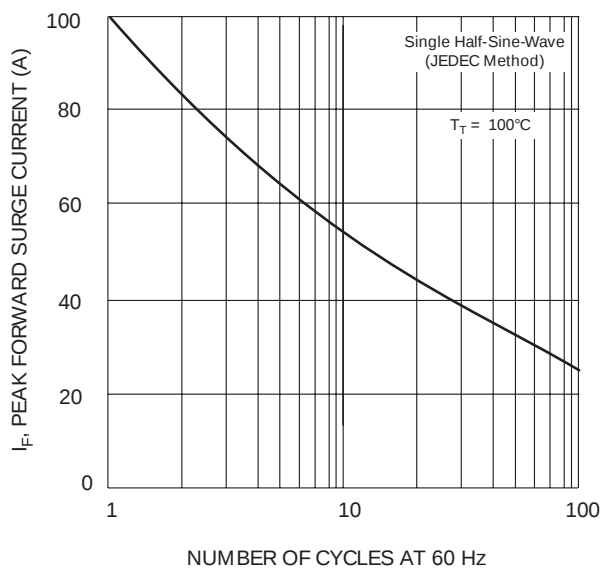


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

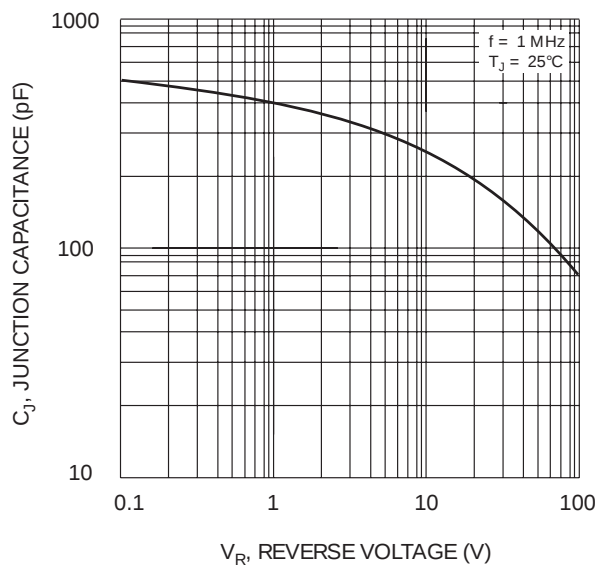


Fig. 4 Typical Junction Capacitance

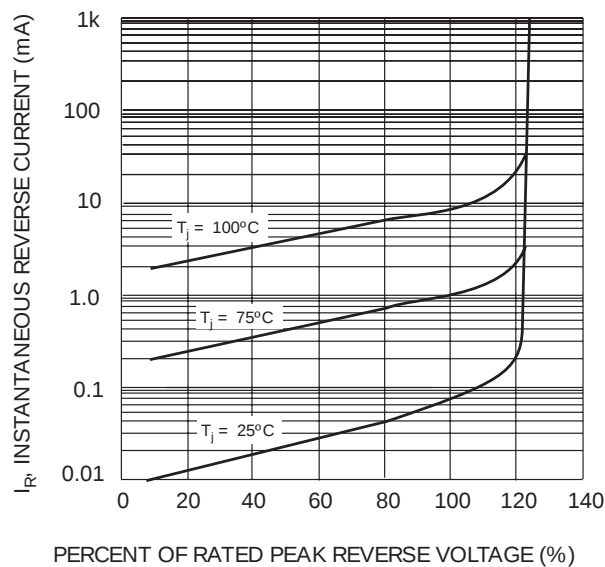


Fig. 5 Typical Reverse Characteristics

ORDERING INFORMATION

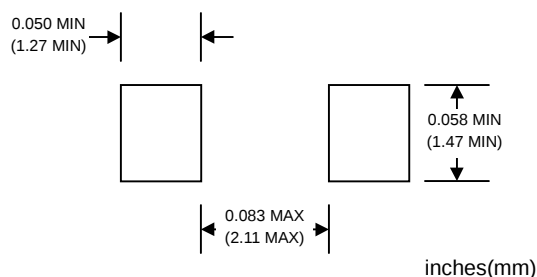
Product No.♦	Package Type	Shipping Quantity
SX32-T1	SMA	1800/Tape & Reel
SX32-T3	SMA	7500/Tape & Reel
SX33-T1	SMA	1800/Tape & Reel
SX33-T3	SMA	7500/Tape & Reel
SX34-T1	SMA	1800/Tape & Reel
SX34-T3	SMA	7500/Tape & Reel
SX35-T1	SMA	1800/Tape & Reel
SX35-T3	SMA	7500/Tape & Reel
SX36-T1	SMA	1800/Tape & Reel
SX36-T3	SMA	7500/Tape & Reel
SX38-T1	SMA	1800/Tape & Reel
SX38-T3	SMA	7500/Tape & Reel
SX39-T1	SMA	1800/Tape & Reel
SX39-T3	SMA	7500/Tape & Reel
SX310-T1	SMA	1800/Tape & Reel
SX310-T3	SMA	7500/Tape & Reel

Products listed in **bold** are WTE **Preferred** devices.

♦T1 suffix refers to a 7" reel. T3 suffix refers to a 13" reel.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

RECOMMENDED FOOTPRINT



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