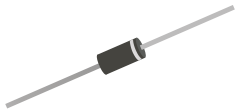
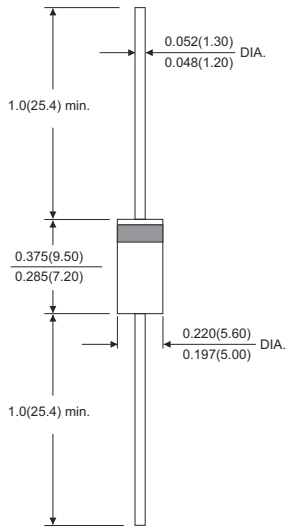
Schottky Barrier Rectifier

SR320-HF Thru. SR3200-HF

Forward current: 3.0A
Reverse voltage: 20 to 200V
RoHS Device
Halogen Free



DO-27



Dimensions in inches and (millimeter)

Features

-Axial lead type devices for through hole design.
-Low power loss, high efficiency.
-High current capability, Low forward voltage drop.
-High surge capability.
-Ultra high-speed switching.
-Silicon epitaxial planar chip, metal silicon junction.
-Lead-free part meets environmental standards of MIL-STD-19500/228

Mechanical Data

-Case: Molded plastic, DO-201AD/DO-27
-Epoxy: UL94V-0 rate flame retardant.
-Lead: Axial lead, solderable per MIL-STD-202, Method 208 guranteed.
-Polarity: color band denoted cathode end.
-Weight: 1.10 gram (approx.).

Maximum Ratings and Electrical Characteristics

Ratings at Ta=25°C unless otherwise noted.
Single phase, half wave, 60Hz, resistive or inductive loaded.
For capacitive load, derate current by 20% .

Parameter	Symbol	SR320 -HF	SR340 -HF	SR360 -HF	SR3100 -HF	SR3150 -HF	SR3200 -HF	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	20	40	60	100	150	200	V
Maximum RMS voltage	V_{RMS}	14	28	42	70	105	140	V
Maximum DC blocking voltage	V_{DC}	20	40	60	100	150	200	V
Maximum forward voltage @3A , T_A=25°C	V_F	0.45	0.50	0.70	0.81	0.87	0.90	V
Operating junction temperature range	T_J	-50 ~ +150				-50 ~ +175		°C

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	Unit
Forward rectified current	see Fig.1	I_O			3.0	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}			70	A
Reverse current	V_R =V_{RRM} T_A=25°C	I_R			0.5	mA
	V_R =V_{RRM} T_A=100°C	I_R			20	mA
Thermal resistance	Junction to ambient	$R_{\theta JA}$		55		°C/W
Diode junction capacitance	f=1MHz and applied 4V DC reverse Voltage	C_J		250		pF
Storage temperature		T_{STG}	-55		+175	°C

RATING AND CHARACTERISTIC CURVES (SR320-HF Thru. SR3200-HF)

Fig.1 - Typical Forward Current Derating Curve

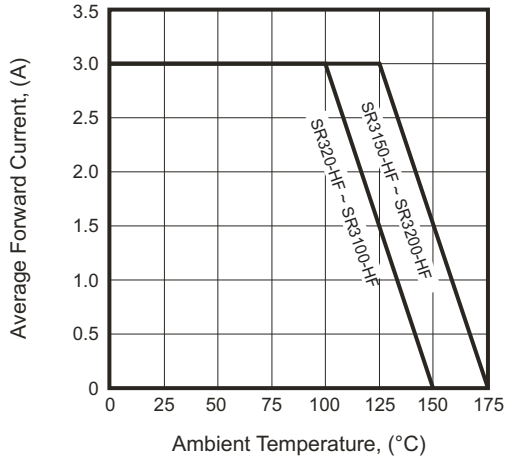


Fig.2 - Typical Forward Characteristics

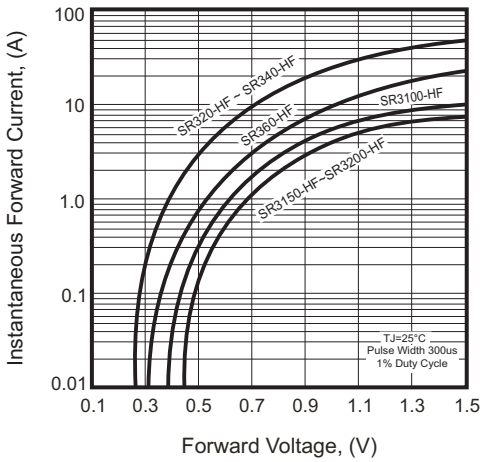


Fig.3 - Maximum Non-repetitive Forward Surge Current

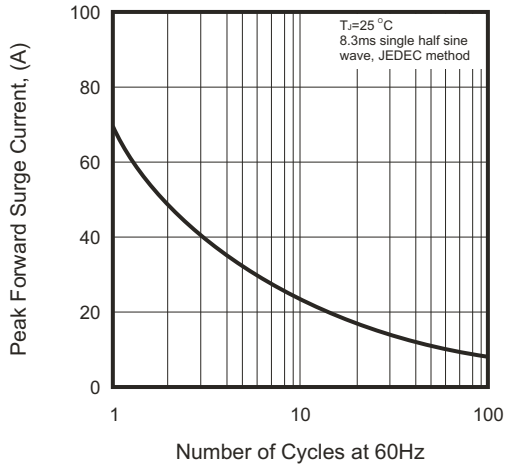


Fig.4 - Typical Junction Capacitance

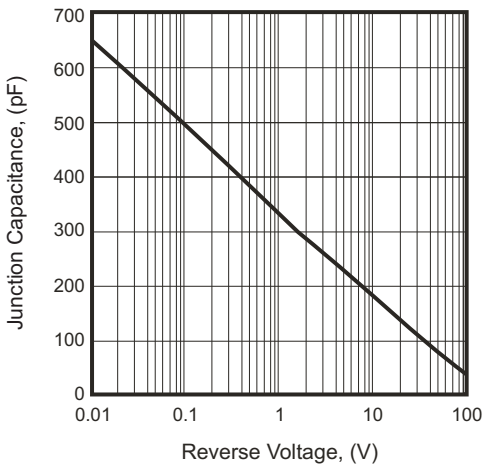
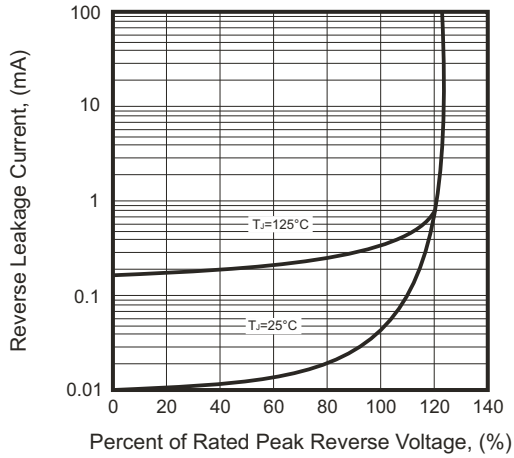
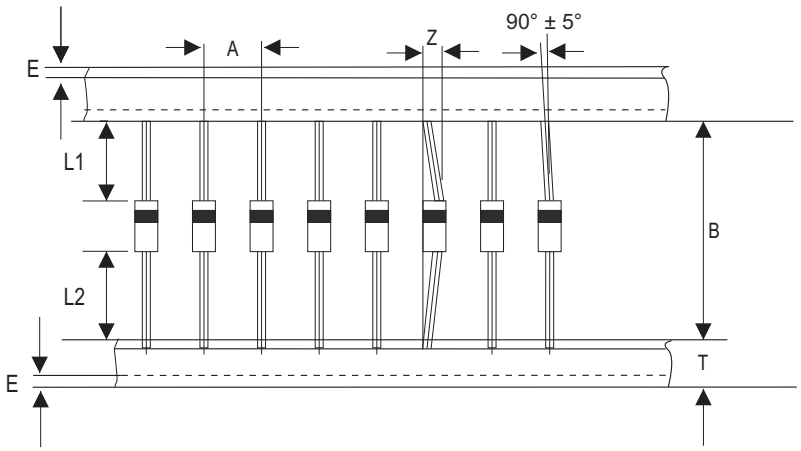
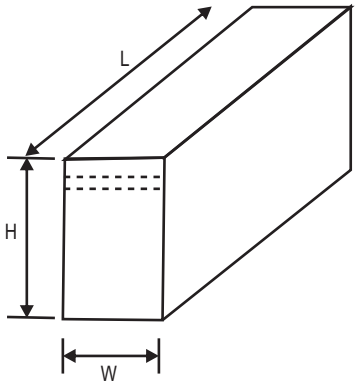


Fig.5 - Typical Reverse Characteristics



Taping Specification For Axial Lead Diodes



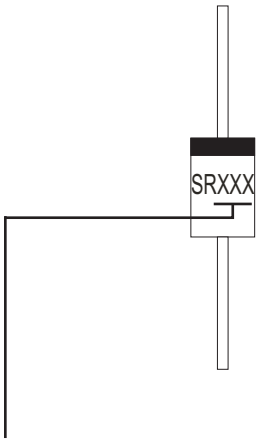


	SYMBOL	A	B	Z	T	E
DO-27	(mm)	10.00 ± 0.50	52.00 ± 0.50	1.20 (max)	6.00 ± 0.40	0.80 (max)
	(inch)	0.394 ± 0.020	2.047 ± 0.020	0.047 (max)	0.236 ± 0.016	0.031 (max)

	SYMBOL	L1	L2	L	W	H
DO-27	(mm)	1.00 (max)	1.00 (max)	260.00	75.00	145.00
	(inch)	0.039 (max)	0.039 (max)	10.236	2.953	5.709

Marking Code

Part Number	Marking Code
SR320-HF	SR32
SR340-HF	SR34
SR360-HF	SR36
SR3100-HF	SR310
SR3150-HF	SR315
SR3200-HF	SR320



XX / XXX = Product type marking code

Standard Packaging

Case Type	AMMO PACK	
	BOX (pcs)	CARTON (pcs)
DO-27	1,200	12,000