



DO-201AD

Primary Characteristics

I_F	3	A
V_{RRM}	20~200	V
I_{FSM}	80	A
V_F	0.55, 0.70, 0.85, 0.90	V
T_J max	125, 150	°C

Features

- Guard ring for overvoltage protection
- Very small conduction losses
- Low forward voltage drop

Mechanical Data

- Case : DO-201AD
- Case Material : Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals : Lead free Plating (Tin Finish)
Solderable per MIL-STD-202, Method 208
- Polarity : Cathode Band
- Weight : 1.071 grams (approximate)

Ordering Information

Part No.	Remark	Package	Packing
SR320 THRU SR3200	General	DO-201AD	1200 / Box
SR320 THRU SR3200-H	Halogen Free		

Maximum Ratings (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	SR 320	SR 330	SR 340	SR 345	SR 350	SR 360	SR 380	SR 3100	SR 3150	SR 3200	UNIT	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	45	50	60	80	100	150	200	V	
Maximum RMS voltage	V_{RMS}	14	21	28	31.5	35	42	56	70	105	140	V	
Maximum DC blocking voltage	V_{DC}	20	30	40	45	50	60	80	100	150	200	V	
Maximum average forward rectified current	I_F	3.0										A	
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	80.0										A	
Maximum Instantaneous Forward Voltage IF=3A @ 25°C	V_F	0.55			0.70		0.85		0.90			V	
Maximum DC Reverse Current @ $T_C=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_C=100^\circ\text{C}$	I_R	0.5 10					0.2 5.0					mA	
Typical Junction Capacitance (NOTE1)	C_j	150						95		80		pF	
Typical Thermal Resistance	$R_{\theta JC}$	20										°C/W	
Operating Temperature Range	T_J	-55 to +125						-55 to +150					°C
Storage Temperature Range	T_{STG}	-55 to +150										°C	

NOTES :

1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC



Rating and Characteristics Curves

FIG. 1-Typical Forward Current Derating Curve

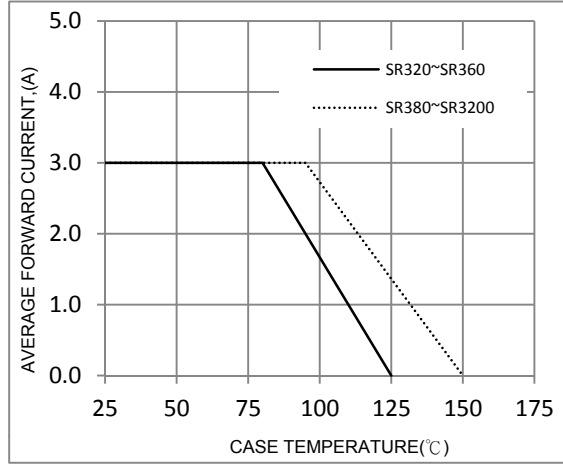


FIG. 2-Typical Forward Characteristics

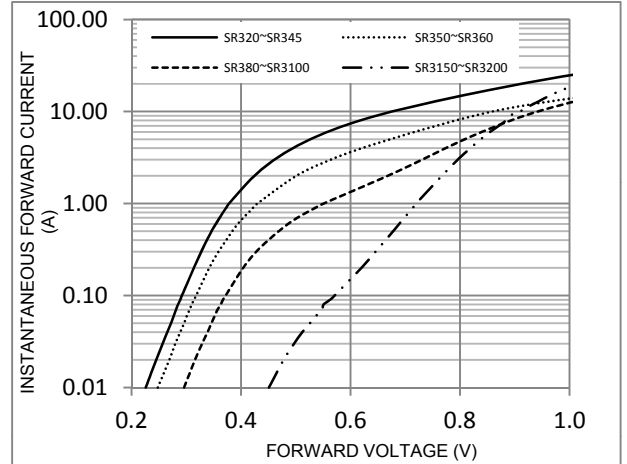


FIG. 3-Maximum Non-Repetitive Forward Surge Current

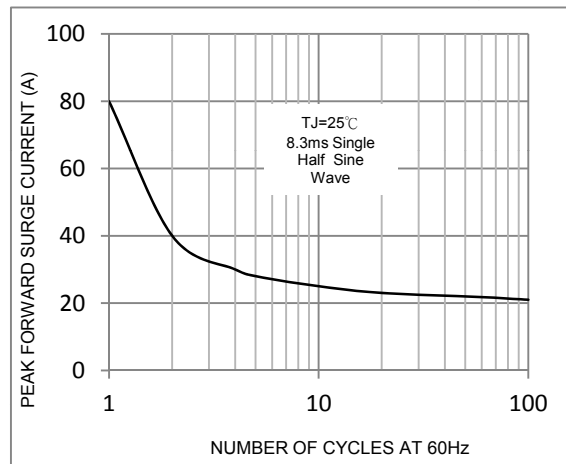


FIG. 4-Typical Reverse Characteristics

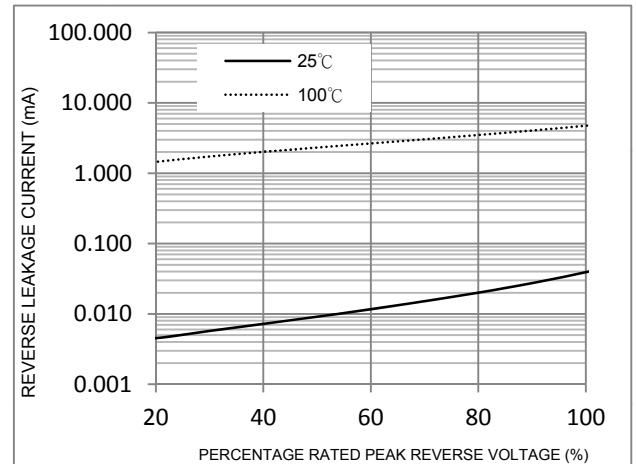
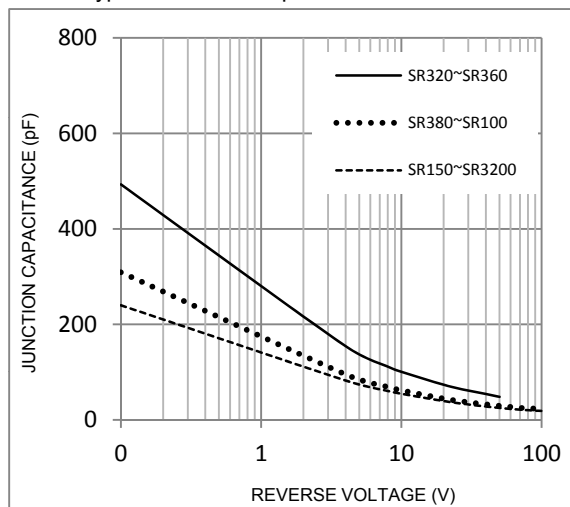
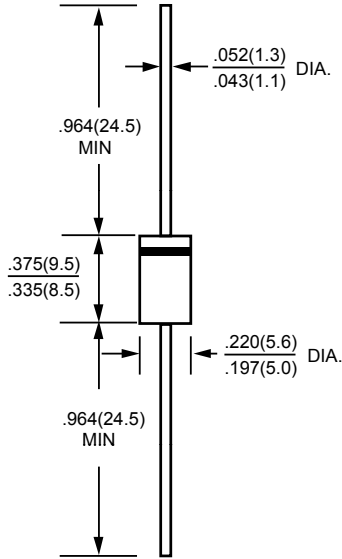


FIG. 5-Typical Junction Capacitance





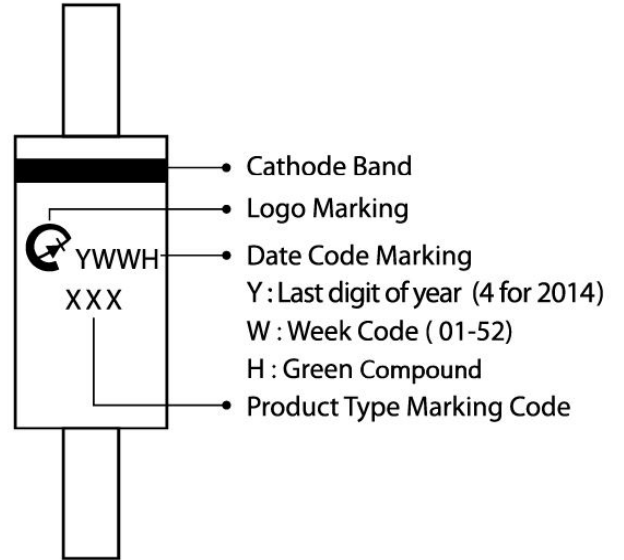
Package Outline Dimensions



DO-201AD

Dimensions in inches and (millimeters)

Marking Information



Ammo Box Packing

Package	Inner	Inner Box	Inner Box	Carton	Carton Size	Gross Weight
	Pack	(EA)	(mm)	(EA)	(mm)	(Kg)-Approx.
DO-201AD(DO-27)	Reel	1200	260*75*150	12000	430*270*320	15



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