



SR520 THRU SR5200



Schottky Barrier Rectifiers



DO-201AD

Primary Characteristics

I_F	5	A
V_{RRM}	20~200	V
I_{FSM}	100	A
V_F	0.55, 0.70, 0.85, 0.87, 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
SR520 THRU SR5200	General	DO-201AD	1200 / Box
SR520 THRU SR5200-H	Halogen Free		

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

PARAMETER	SYMBOL	SR 520	SR 530	SR 540	SR 550	SR 560	SR 580	SR 5100	SR 5150	SR 5200	UNIT	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V	
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V	
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	150	200	V	
Maximum average forward rectified current	I_F	5.0									A	
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	100.0									A	
Maximum Instantaneous Forward Voltage IF=5A @ 25°C	V_F	0.55		0.70		0.85		0.87		0.90	V	
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=100°C	I_R	0.5 10				0.2 5.0					mA	
Typical Junction Capacitance(NOTE1)	C_j	290		220		160		150		110	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	
Marking Code		SR 520	SR 530	SR 540	SR 550	SR 560	SR 580	SR 5100	SR 5150	SR 5200		

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

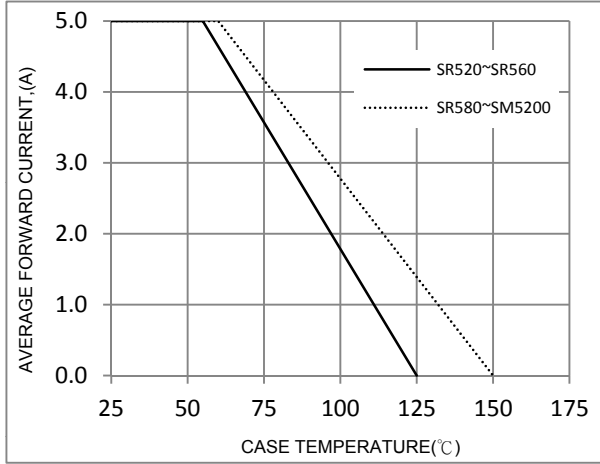


FIG. 2-Typical Forward Characteristics

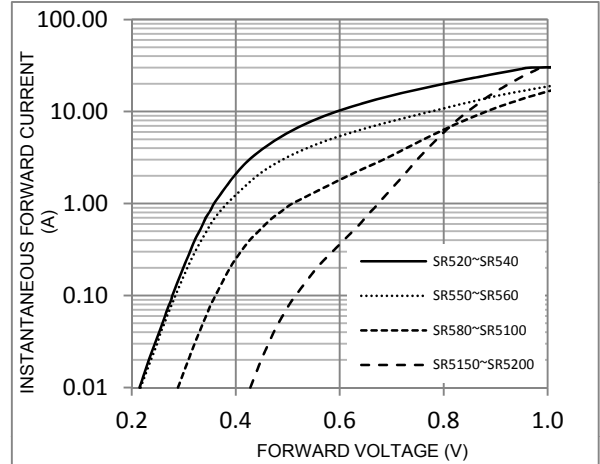


FIG. 3-Maximum Non-Repetitive Forward Surge Current

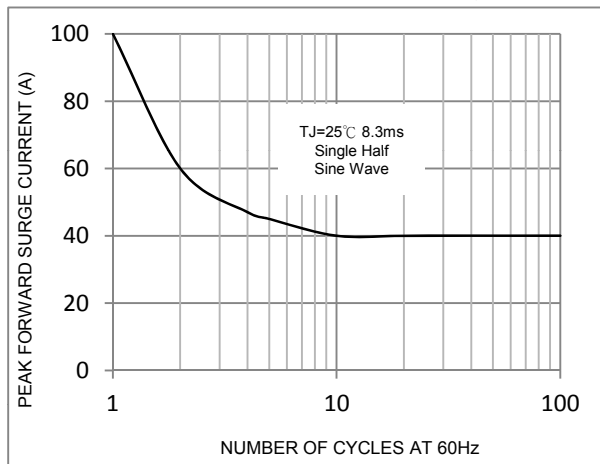


FIG. 4-Typical Reverse Characteristics

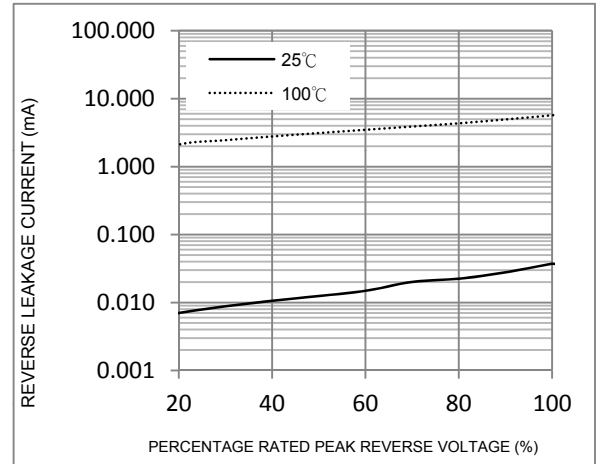
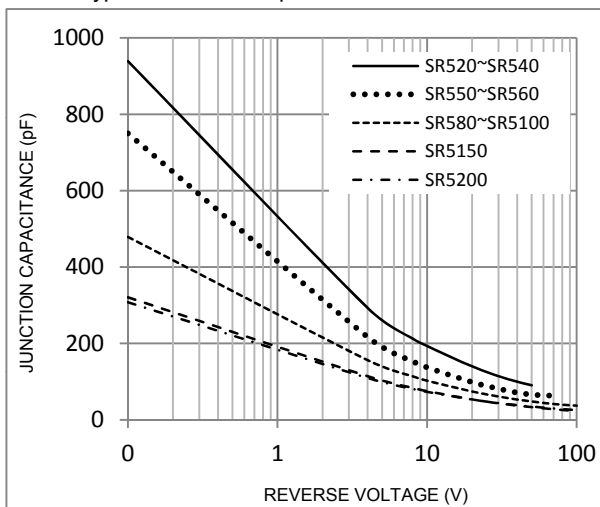
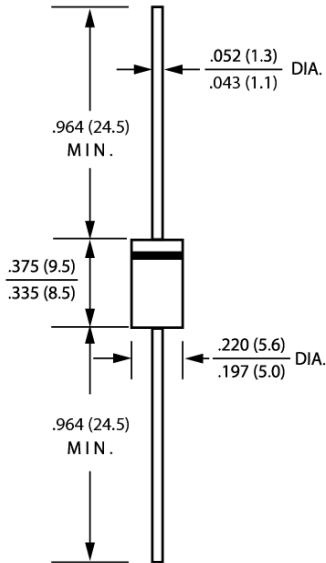


FIG. 5-Typical Junction Capacitance





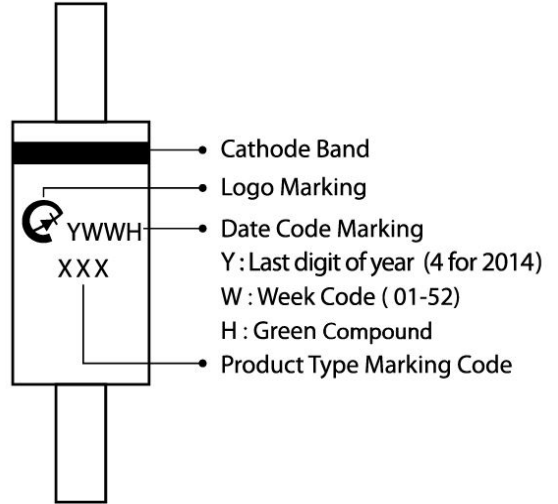
Package Outline Dimensions



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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