5.0Amp Schottky Barrier Rectifiers

FEATURES：
- High current capability
- High surge current capability
- Low forward voltage drop
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications
- RoHS compliant.

DO-201AD

MECHANICAL DATA：
- Case：Molded plastic, DO-201AD
- Terminals：Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity：Band denotes cathode

MAXIMUM RATINGS (Ratings at 25 ℃ ambient temperature unless otherwise specified)

Characteristic	Symbol	SR 520	SR 540	SR 550	SR 560	SR 580	SR 5100	SR 5150	SR 5200	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	40	50	60	80	100	150	200	V
Maximum RMS Voltage	V_{RMS}	14	28	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	20	40	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current 0.375"(9.5mm) Lead Length	$I_{(AV)}$	5.0								A
Peak Forward surge current 8.3ms single half-sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	150								A
Maximum Forward Voltage at 5.0A DC and 25℃	V_F	0.55		0.70		0.85		0.95		V
Maximum DC reverse current at rated DC blocking voltage (T_A=25℃/ T_A=100℃)	I_R	0.5 / 50								mA
Typical Junction Capacitance (1)	C_J	50		300						pF
Typical Thermal Resistance	$R_{\theta JA}$	15		10						℃/W
Operating Junction Temperature Range	T_J	-55 ~ +125		-55 ~ +150						℃
Storage Temperature Range	T_{STG}	-55 ~ +150								℃

Note 1：Measured at 1 MH and applied reverse voltage of 4.0 VDC

TYPICAL RATINGS AND CHARACTERISTICS CURVES

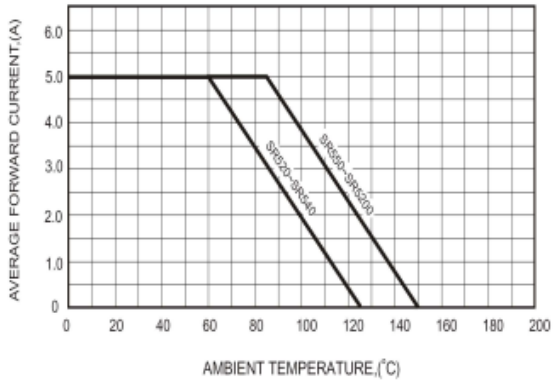


Figure 1. FORWARD CURRENT DERATING CURVE

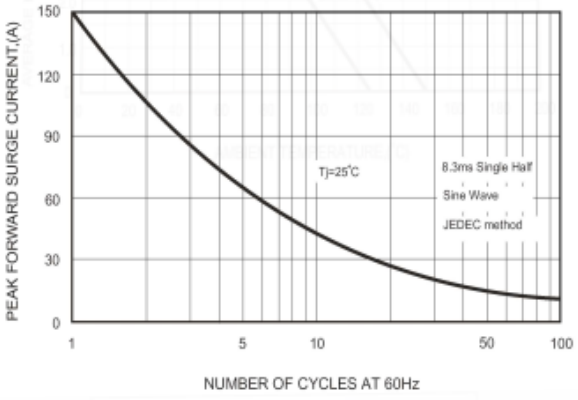


Figure 2. MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

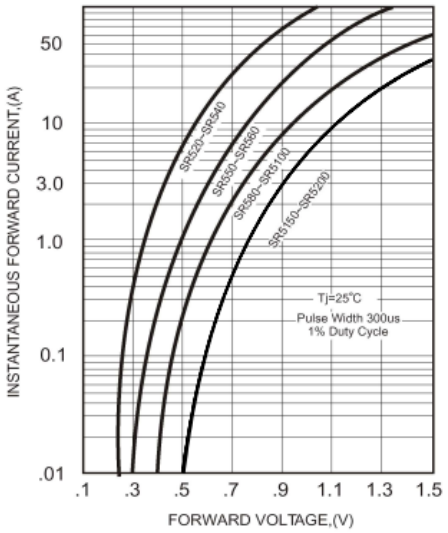


Figure 3. TYPICAL FORWARD CHARACTERISTICS

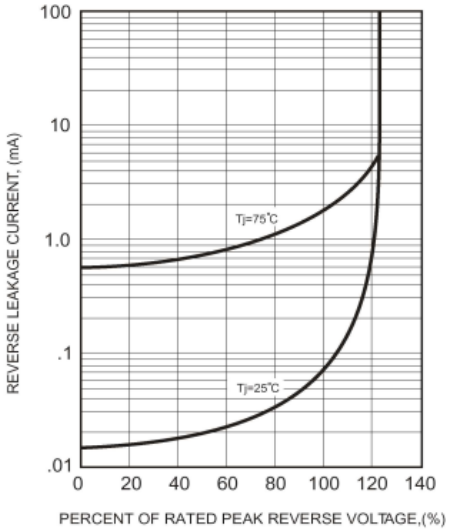


Figure 4. TYPICAL REVERSE CHARACTERISTICS

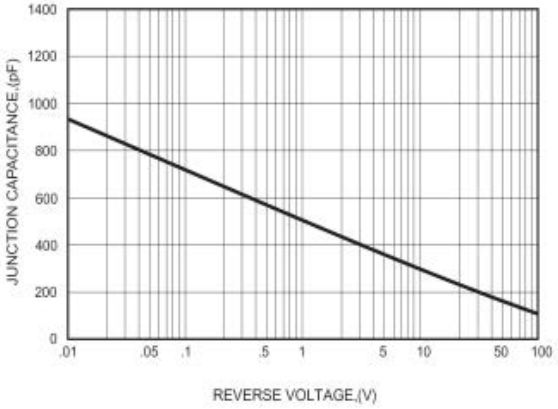
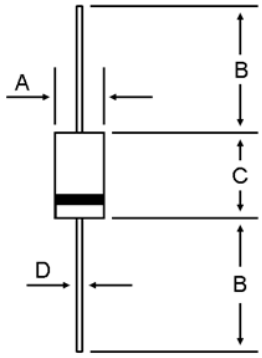


Figure 5. TYPICAL JUNCTION CAPACITANCE

• Package outlines : Dimensions in millimeters



DIM	MILLIMETERS	
	MIN	MAX
A	4.80	5.60
B	24.00	---
C	7.20	9.50
D	0.90	1.30

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