WEITRON

SR520 thru SR5200

Axial Lead Schottky Barrier Rectifiers

Lead(Pb)-Free

REVERSE VOLTAGE
20 TO 200 VOLTS
FORWARD CURRENT
5.0 AMPERE

FEATURES:

* Low forward voltage drop
* 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 parts meet environmental standards of MIL-STD-19500 /228

DO-201AD

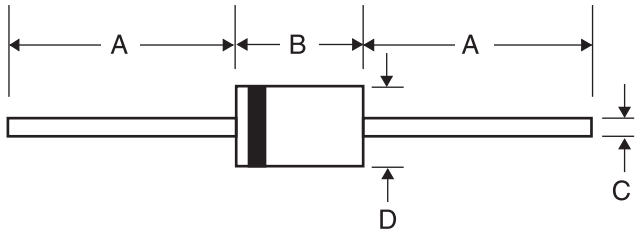
MECHANICAL DATA:

* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
* Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
* Polarity: Cathode Band
* Mounting position: Any
* Weight: 1.071 grams

DO-201AD Outline Dimensions

Unit:mm

Axial Device (Through-Hole)



	A		B		C		D	
Dim	Min	Max	Min	Max	Min	Max	Min	Max
DO-201AD	25.40	-	7.30	9.50	1.20	1.30	4.80	5.60

Maximum Ratings(TA=25°C Unless Otherwise Noted)

Characteristic	Symbol	SR 520	SR 530	SR 540	SR 550	SR 560	SR 580	SR 5100	SR 5150	SR 5200	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V
RMS Reverse Voltage	$VR_{(RMS)}$	14	21	28	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	V_R	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current See Fig.1	$I_{F(AV)}$	5.0									A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	100									A
Maximum Instanatneous Forward Voltage I_F=5.0A	V_F	0.55			0.70		0.85		0.87	0.90	V
Maximum Instantaneous Reverse Current Rated DC Blocking Voltage, T_A=25°C Rated DC Blocking, T_A=100°C	I_R	0.5 10					0.2 5.0				mA
Thermal Resistance	$R_{\theta JA}$	30									°C/W
Diode Junction Capacitance f=1MHz and applied 4V DC reverse voltage	C_J	320			300		200		180	120	pF
Operating Junction Temperature Range	T_J	-55 to +125							-55 to +150		°C
Storage Junction Temperature Range	T_{STG}	-55 to +150									°C

RATINGAND CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

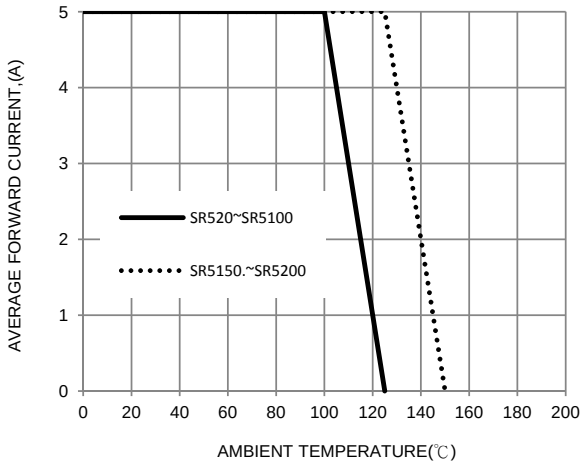


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

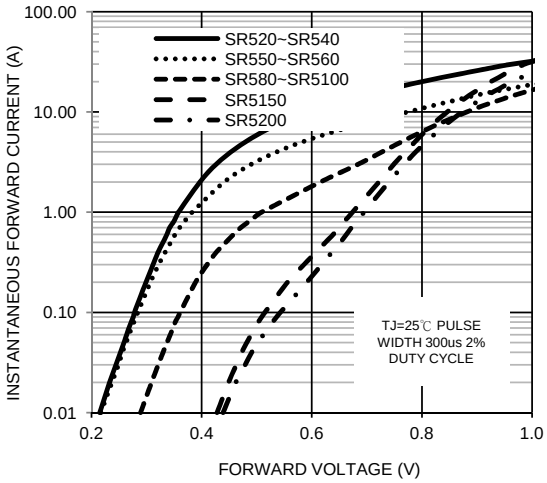


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

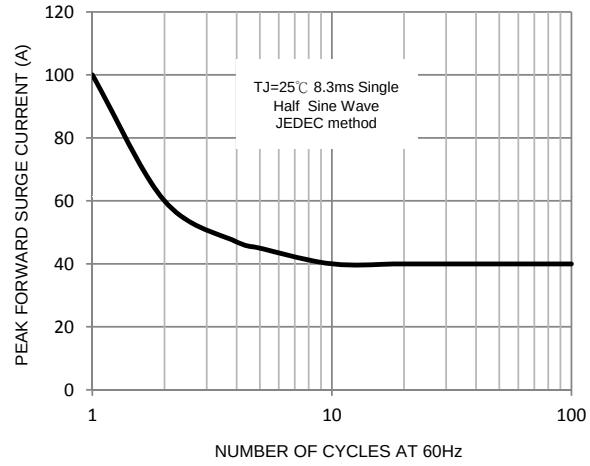


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

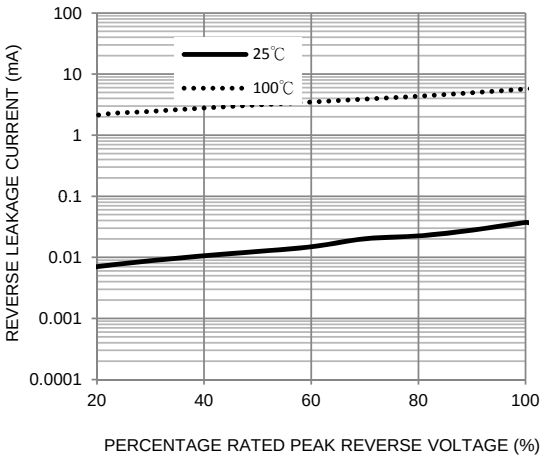


FIG. 5-TYPICAL JUNCTION CAPACITANCE