

Axial Lead Schottky Barrier Rectifiers

(Pb) Lead(Pb)-Free

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

MECHANICAL DATA:

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 1.10 grams

REVERSE VOLTAGE
20 TO 100 VOLTS
FORWARD CURRENT
5.0 AMPERE

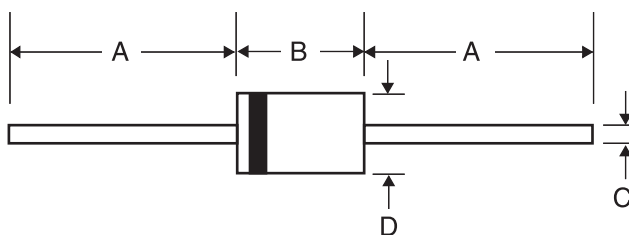


DO-201AD

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 Rating

Characteristic	Symbol	SR520	SR530	SR540	SR550	SR560	SR580	SR5100	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	V
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V _R	20	30	40	50	60	80	100	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}	110							A
Thermal Resistance	R _{θJA}	10							°C/W
Diode Junction Capacitance f=1MHz and applied 4V DC reverse voltage	C _J	380							pF
Operating Junction Temperature Range	T _J	-65 to +125			-65 to +150				°C
Storage Junction Temperature Range	T _{STG}	-65 to +150							°C

Electrical Characteristic

Characteristic	Symbol	SR520	SR530	SR540	SR550	SR560	SR580	SR5100	UNIT
Maximum Instanatneous Forward Voltage I _F =5.0A	V _F	0.55			0.70		0.85		V
Maximum Instantaneous Reverse Current Rated DC Blocking Voltage, T _A =25°C Rated DC Blocking, T _A =100°C	I _R	5.0 50							mA

RATING AND CHARACTERISTIC CURVES

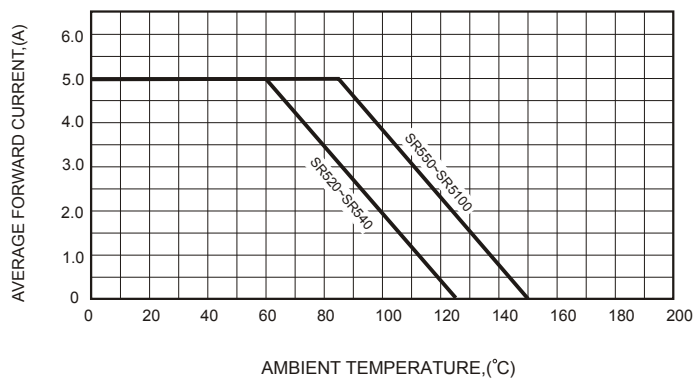


FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

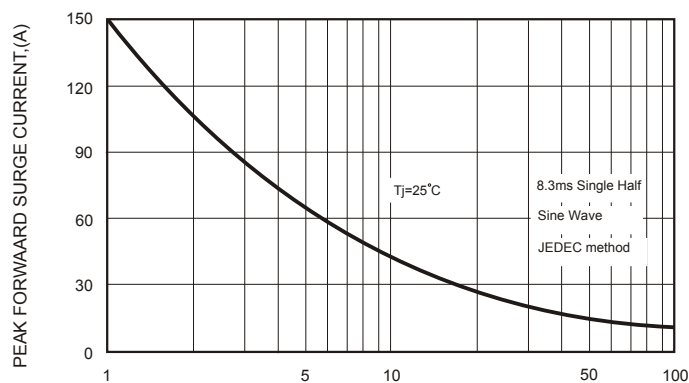


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

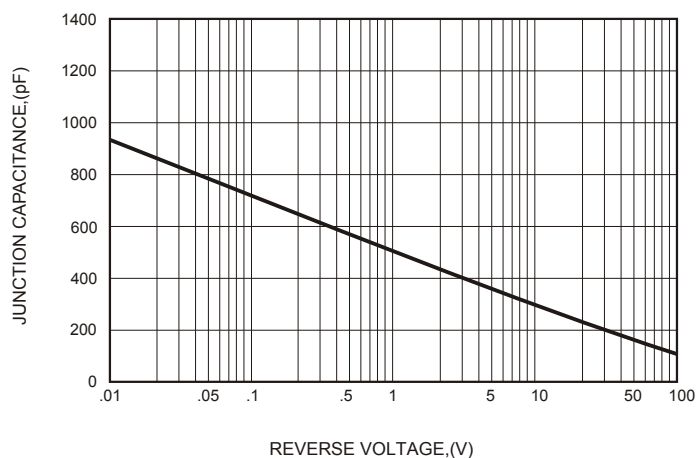


FIG.4-TYPICAL JUNCTION CAPACITANCE

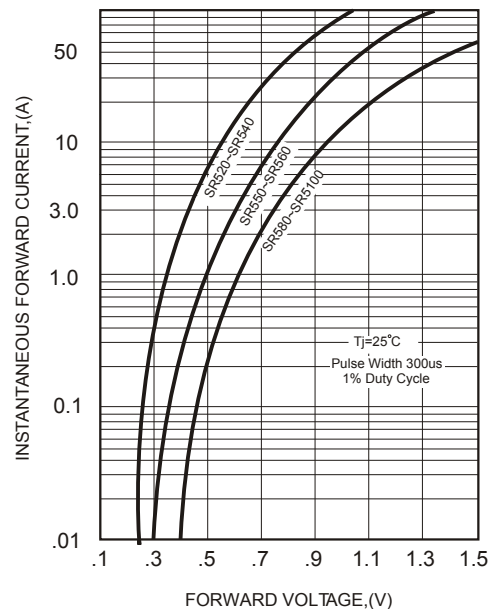


FIG.2-TYPICAL FORWARD CHARACTERISTICS

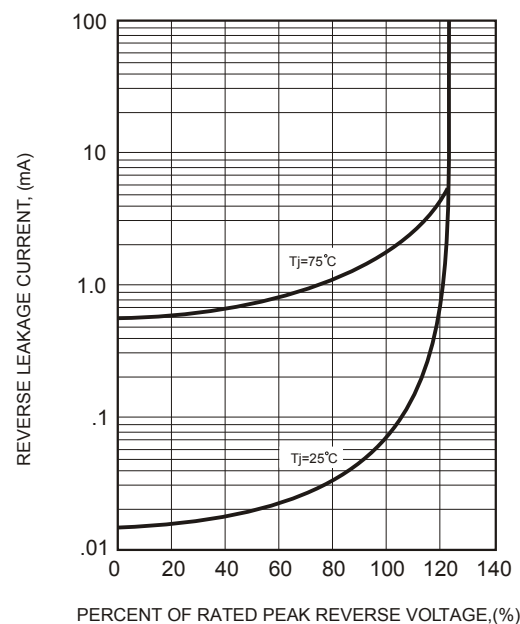


FIG.5 - TYPICAL REVERSE CHARACTERISTICS