

SMALL SIGNAL SCHOTTKY BARRIES SWITCHING DIODES

FEATURES

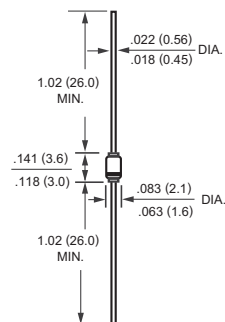
- * Low Forward Voltage Drop
- * Guard Ring Construction for Transient Protection
- * Low Reverse Recovery Time
- * Low Reverse Capacitance
- * Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

- * Case: Molded Glass DO-35
- * Terminals: Solderable per MIL-STD-750, Method 2026

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.



MAXIMUM RATINGES (@ TA = 25°C unless otherwise noted)

PARAMETER	SYMBOL	SD103A	SD103B	SD103C	UNITS
Marking Code	-	103A	103B	103C	-
Peak Repetitive Reverse Voltage	V_{RRM}	40	30	20	V
RMS Reverse Voltage	V_{RMS}	28	21	14	V
Max. Average Rectified Current	$I_{F(AV)}$	350			mA
Peak Forward Surge Current, $t \leq 0.3ms$	I_{FSM}	15			A
Power Dissipation Derate Above 25°C	P_D	400			mW
Maximum Forward Voltage, $I_F = 20mA$ $I_F = 200mA$	V_F	0.37 0.7			V
Maximum Reverse Current	I_R	5@30V	5@20V	5@10V	μA
Typical Junction Capacitance (Note 1)	C_J	50			pF
Typical Reverse Recovery (Note 2)	t_{rr}	10			ns
Typical Thermal Resistance	$R_{\theta JA}$	250			°C / W
Storage Temperature Range	T_{STG}	-65 to +175			°C
Operating Junction Temperature Range	T_J	-55 to +125			°C

NOTE :

1. CJ at $V_R=0$, $f=1MHz$
2. From $I_F=50mA$ to $I_R=200mA$, $R_L=100\Omega$

RATING AND CHARACTERISTICS CURVES (SD103A THRU SD103C)

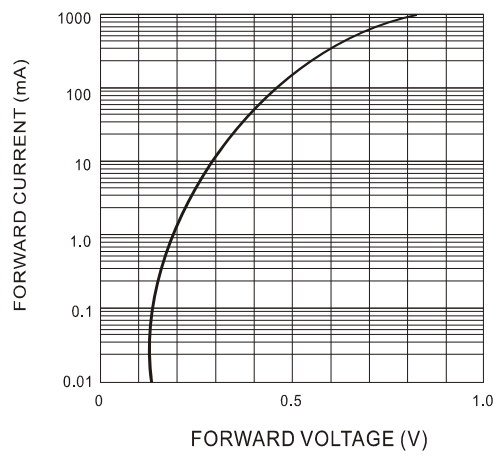


FIG.1 , FORWARD CHARACTERISTICS

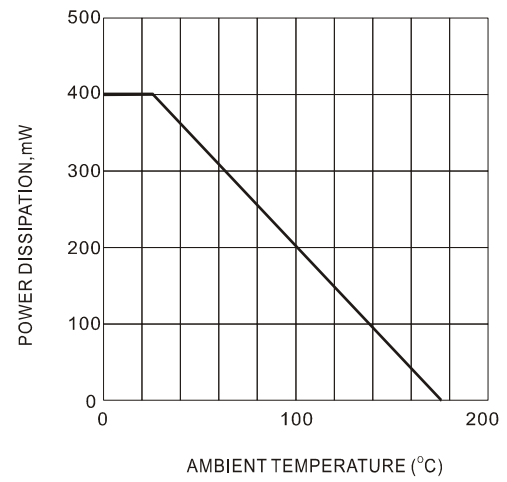


FIG.2 , POWER DISSIPATION DERATING CURVE

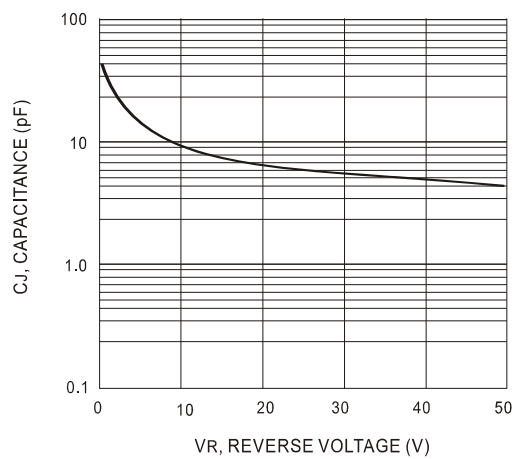


FIG.3 , TYPICAL CAPACITANCE vs REVERSE VOLATGE

PACKAGING OF DIODE

BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-35	-B	10,000	240*100*100	410*350*275	120,000	21.5

REEL PACK

PACKAGE	PACKING CODE	REEL (EA)	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-35	-T	10,000	5.0	52	356	380*380*420	50,000	11.00

AMMO PACK

PACKAGE	PACKING CODE	REEL (EA)	COMPONENT SPACE(mm)	TAPE SPACE (mm)	BOX SIZE (mm)	CARTON SIZE(mm)	CARTON (EA)	GROSS WEIGHT (Kg)
DO-35	-F	5,000	5.0	52	250*80*80	410*260*340	100,000	20.00

Revise History

[illegible]

DISCLAIMER NOTICE

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.