

SMALL SIGNAL SCHOTTKY BARRIES SWITCHING DIODES

FEATURES

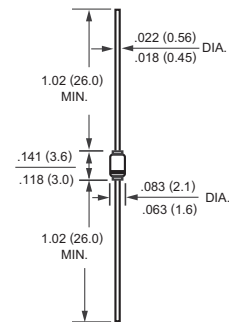
- * Low Forward Voltage Drop
- * Guard Ring Construction for Transient Protection
- * Low Reverse Recovery Time
- * Low Reverse Capacitance
- * Lead free in compliance with EU RoHS 2011/65/EU directive

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 RATINGS (@ 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)

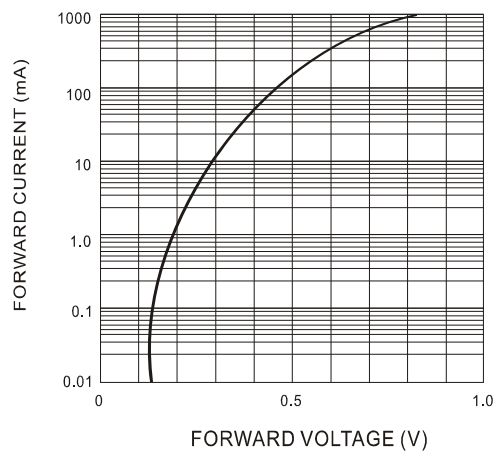


FIG.1 , FORWARD CHARACTERISTICS

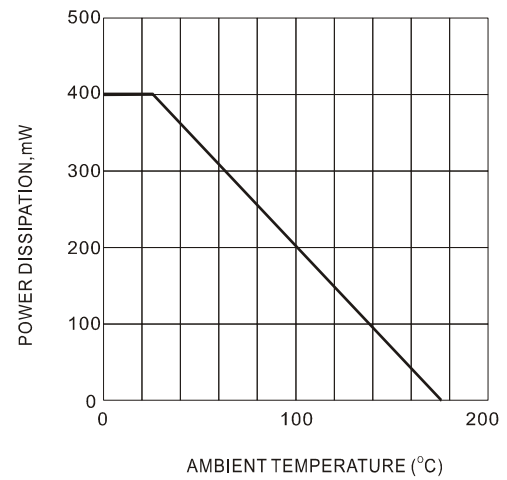


FIG.2 , POWER DISSIPATION DERATING CURVE

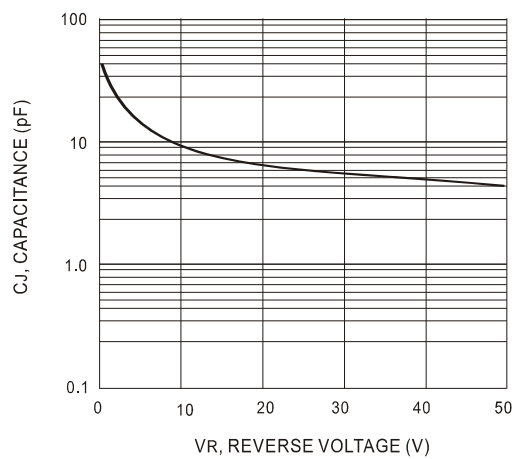


FIG.3 , TYPICAL CAPACITANCE vs REVERSE VOLTAGE

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]

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