

DATA SHEET

SD103ATW

SURFACE MOUNT SCHOTTKY DIODES

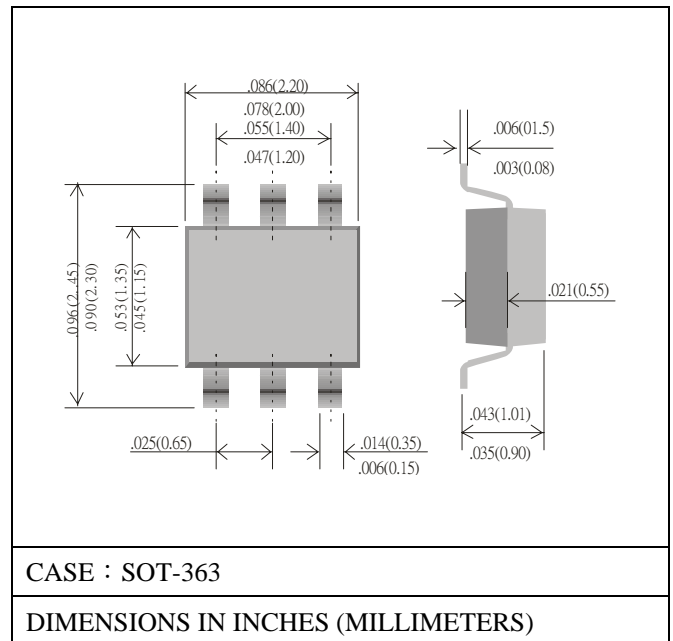
VOLTAGE 40 Volts **CURRENT** 175 mA

FEATURES

- VERY LOW V_F :0.27V(MAX.) AT $I_F=1mA$
- EXTREMELY FAST SWITCHING SPEED

MECHANICAL DATA

- CASE : SOT-363 PLASTIC
- TERMINALS : SOLDERABLE PER MIL-STD-202 METHOD 208
- APPROX.WEIGHT:0.008 GRAMS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

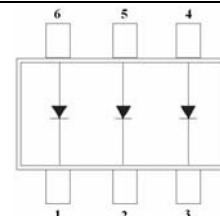
RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.

PARAMETER	SYMBOL	VALUE	UNITS
MAXIMUM REVERSE VOLTAGE	V_R	40	V
RECTIFIED CURRENT(AVERAGE),HALF WAVE RECTIFICATION WITH RESISTIVE LOAD AND $f \geq 50Hz$	I_O	175	mA
POWER DISSIPATION DERATE ABOVE 25°C	P_{TOT}	200	mW
OPERATING AND STORAGE JUNCTION TEMPERATURE RANGE	T_J, T_{STG}	- 55 TO + 150	°C

ELECTRICAL CHARACTERISTICS ($A_T T_A = 25°C$ UNLESS OTHERWISE NOTED)

PARAMETER	SYMBOL	VALUE	UNITS
MAXIMUM FORWARD VOLTAGE	V_F	$I_F=1mA$	0.27
		$I_F=5mA$	0.32
		$I_F=20mA$	0.37
		$I_F=100mA$	0.5
MAXIMUM DC REVERSE CURRENT	I_R	$V_R=10V$	2.0
		$V_R=30V$	5.0
JUNCTION CAPACITANCE (NOTE 1)	C_J	50	pF

NOTE: 1. $V_R=1V, f=1MHz$



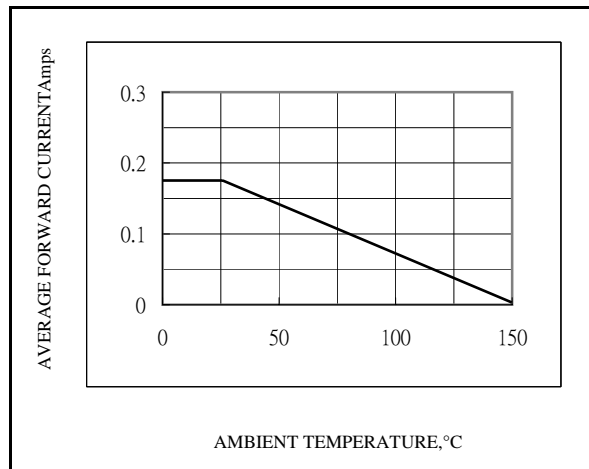


Fig.1-FORWARD CURRENT DERATING CURVE

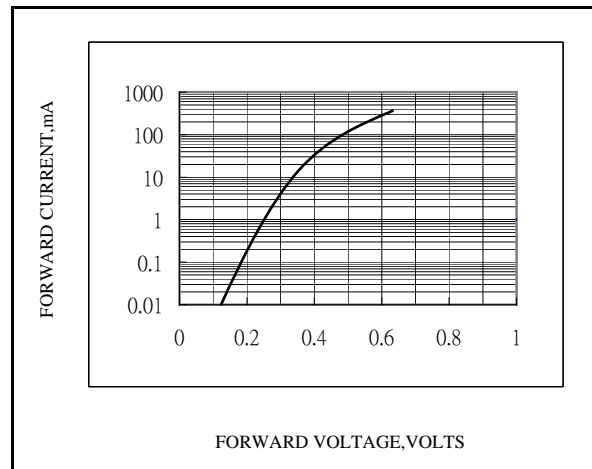


Fig.2-TYPICAL FORWARD CHARACTERISTIC

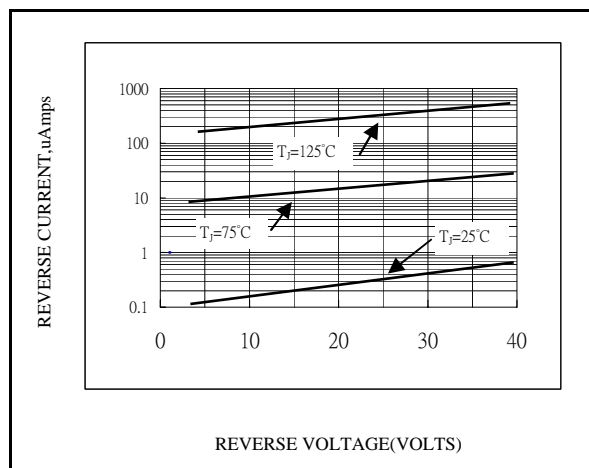


Fig.3- TYPICAL REVERSE CURRENT

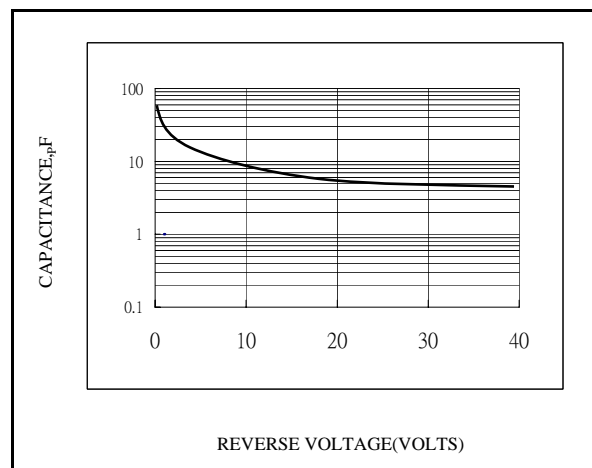


Fig.4- TYPICAL REVERSE CURRENT