

DATA SHEET

1SS355

SURFACE MOUNT SWITCHING DIODES

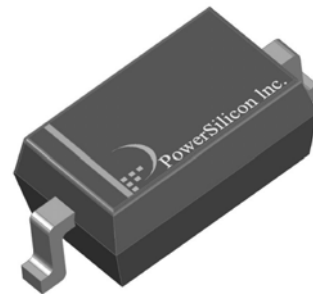
VOLTAGE 80 V **POWER** 200 mW

FEATURES

- FAST SWITCHING SPEED
- SURFACE MOUNT PACKAGE IDEALLY SUITED FOR AUTOMATIC INSERTION
- ELECTRICALLY IDENTICAL TO STANDARD JEDEC
- HIGH CONDUCTANCE
- LEAD FREE AND HALOGEN-FREE

MECHANICAL DATA

- CASE: SOD-323
- TERMINAL: SOLDERABLE PER MIL-STD-220, METHOD 208
- APPROX. WEIGHT: 0.00436 GRAMS



CASE: SOD-323

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.

PARAMETER	SYMBOL	VALUE	UNITS
MAXIMUM REVERSE VOLTAGE	V_R	80	V
NON-REPETITIVE PEAK REVERSE VOLTAGE	V_{RM}	90	V
PEAK FORWARD CURRENT	I_{FM}	225	mA
AVERAG RECTIFIED CURRENT, HALF WAVE RECTIFICATION WITH RESISTIVE LOAD AND $f \geq 50\text{Hz}$	I_O	100	mA
NON-REPETITIVE PEAK FORWARD SURGE CURRENT AT 1 SECOND	I_{FSM}	500	mA
POWER DISSIPATION DERATE ABOVE 25°C	P_{TOT}	200	mW
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 125	°C
JUNCTION TEMPERATURE	T_J	125	°C

ELECTRICAL CHARACTERISTICS (AT $T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

PARAMETER	SYMBOL	VALUE	UNITS
MAXIMUM FORWARD VOLTAGE AT $I_F=100\text{mA}$	V_F	1.2	V
MAXIMUM DC REVERSE CURRENT AT $V_R=80\text{V}$	I_R	0.1	μA
TOTAL CAPACITANCE (NOTE.1)	C_T	3.0	pF
REVERSE RECOVERY TIME ($I_F=10\text{mA}, V_R=6\text{V}, R_L=100\Omega$)	T_{RR}	4.0	nS

NOTE:

1. C_T AT $V_R = 0.5\text{V}, f = 1\text{MHz}$

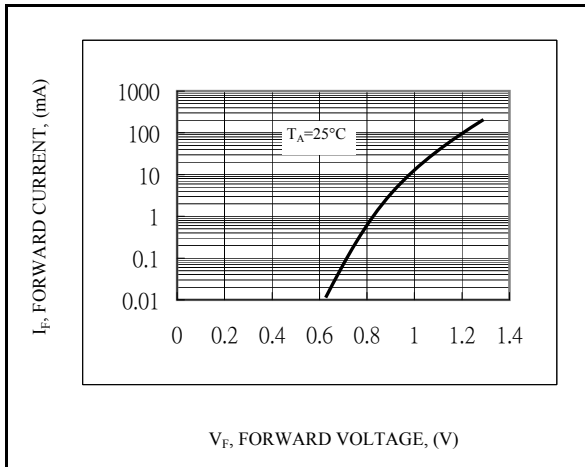


Fig.1-TYPICAL FORWARD CHARACTERISTIC

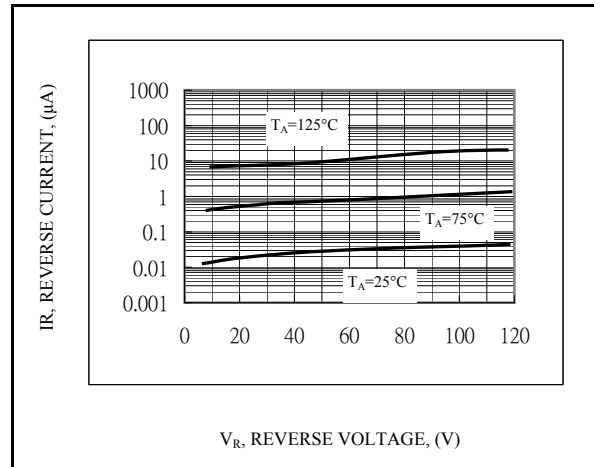


Fig.2-TYPICAL REVERSE CHARACTERISTICS

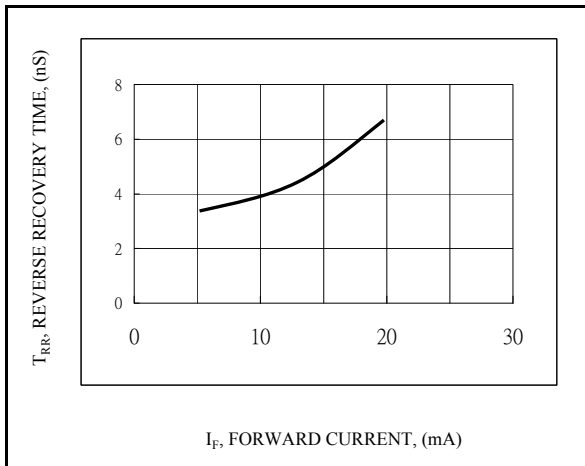


Fig.3-REVERSE RECOVERY TIME CHARACTERISTICS

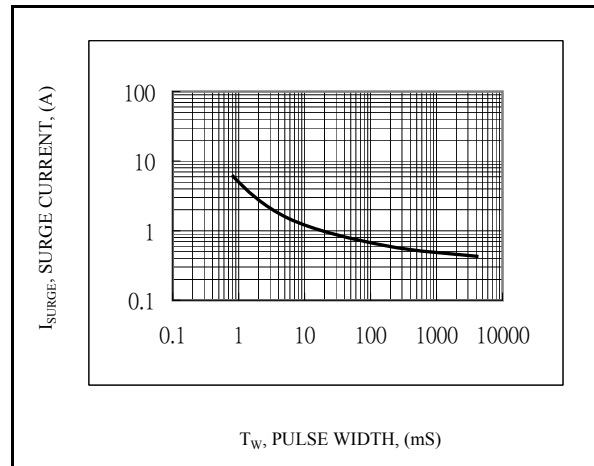


Fig.4-SURGE CURRENT CHARACTERISTICS

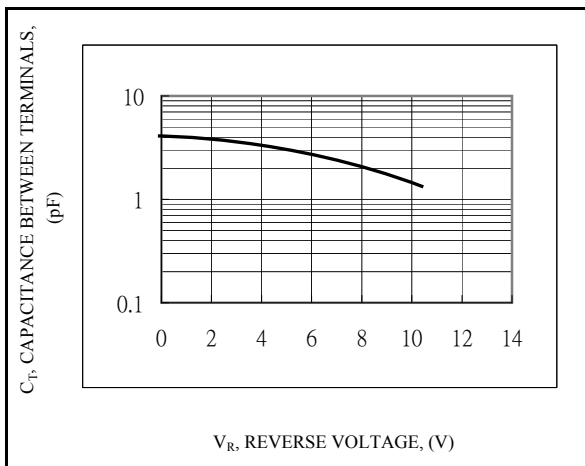
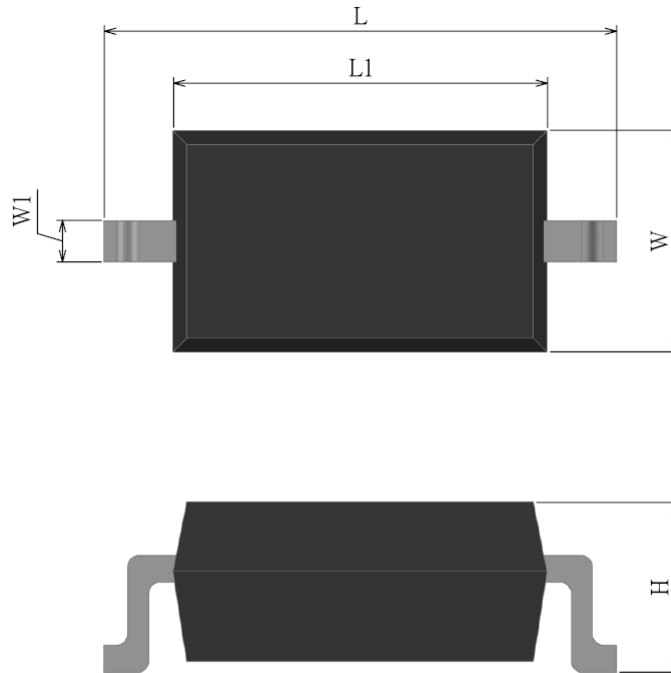


Fig.5-CAPACITANCE BETWEEN TERMINALS CHARACTERISTICS

SOD-323 DIMENSION



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
L	2.50	2.70	0.098	0.106
L1	1.60	1.80	0.063	0.071
W	1.20	1.40	0.047	0.055
W1	0.25	0.35	0.010	0.014
H	0.80	1.00	0.031	0.039