

1SS355

VOLTAGE RANGE
CURRENT

80 Volts
225m Ampere

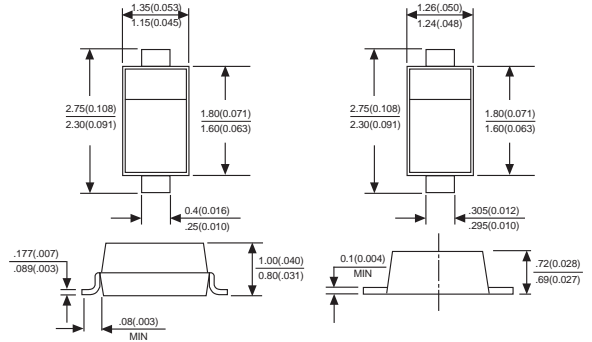
FEATURES

- Small surface mounting type.(UMD2)
- High speed.($t_n=1.2ns$ typ.)
- High reliability with high surge current handing capability.

MECHANICAL DATA

- Case: Molded plastic body
- Terminals : Plated leads solderable per MIL-STD-750, Method 2026
- Polarity : Polarity symbols marked on case
- Marking : A

SOD-323



Dimensions in millimeters and (inches)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Maximum ratings and electrical characteristics, Single diode @ $T_A=25^\circ C$

PARAMETER	SYMBOLS	LIMITS				UNITS
DC blocking voltage	V_R	80				V
Peak forward current	I_{FM}	225				mA
Average rectified output current	I_o	100				mA
Surge current (1s)	I_{Surge}	500				mA
Junction temperature	T_j	125				$^\circ C$
Storage temperature	T_{STG}	-55 to +125				$^\circ C$
Non-repetitive peak reverse voltage	V_{RM}	90				V
Electrical ratings @ $T_A=25^\circ C$						
PARAMETER	SYMBOLS	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F			1.2	V	$I_F=100mA$
Reverse current	I_R			0.1	μA	$V_R=80V$
Capacitance between terminals	C_T			3	pF	$V_R=0.5, f=1.0MHz$
Reverse recovery time	t_{rr}			4	ns	$I_F=10mA, V_R=6V, R_L=100\Omega$

FIG. 1- FORWARD CHARACTERISTICS

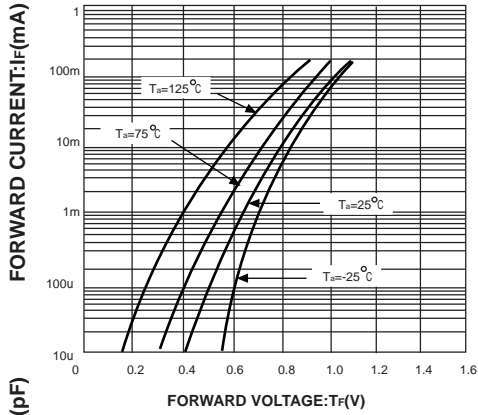
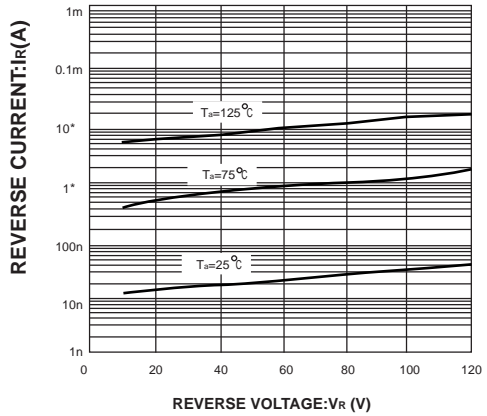
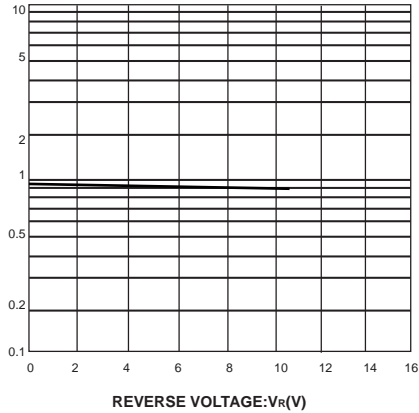


FIG. 2- REVERSE CHARACTERISTICS



CAPACITANCE BETWEEN TERMINALS: C_T (pF)

FIG. 3- CAPACITANCE BETWEEN TERMINALS CHARACTERISTICS



REVERSE RECOVERY TIME: t_{rr} (ns)

FIG. 4- REVERSE RECOVERY TIME CHARACTERISTICS

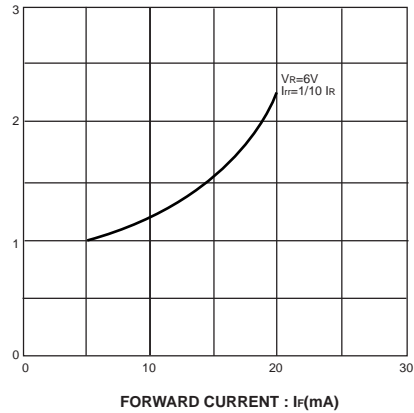


FIG. 5- SURGE CURRENT CHARACTERISTICS

