



1SS355

SURFACE MOUNT SWITCHING DIODE

VOLTAGE	90 Volts	POWER	200 mW
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SOD-323 Unit: inch (mm)

FEATURES

- Small surgance mounting type (SOD-323)
- High Speed ($T_{RR}=1.2ns$ Typ)
- High reliability with surge current handing capability
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

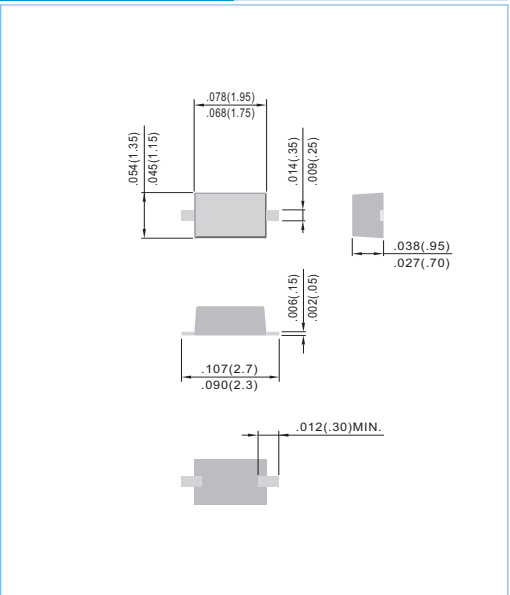
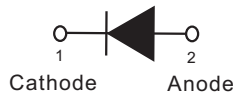
Case: SOD-323 plastic

Terminals : Solderable per MIL-STD-750,Method 2026

Polarity : Color band cathode

Approx Weight: 0.0041 grams

Silicon epitaxial planar



MAXIMUM RATINGS

PARAMETER	SYMBOL	LIMITS	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RM}	90	V
Maximum DC Reverse Voltage	V_R	80	V
Maximum Peak Forward Current	I_{FM}	225	mA
Mean Rectifying Current	I_O	100	mA
Surge Current $t_p=1000ms(1sec)$	I_{FSM}	0.5	A
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to + 150	°C

ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNITS	CONDITONS
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	--	--	3.0	pF	$V_R=0V, f=1MHz$
Reverse Recovery Time	T_{RR}	--	--	4.0	ns	$V_R=6V, I_F=10mA, R_L=100\Omega$

Note : 1.Mounted on min pad conditions using FR-4 PCB



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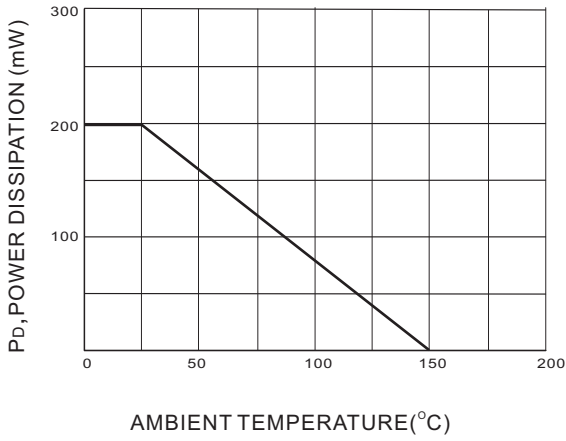


FIG. 1 POWER DERATING CURVE

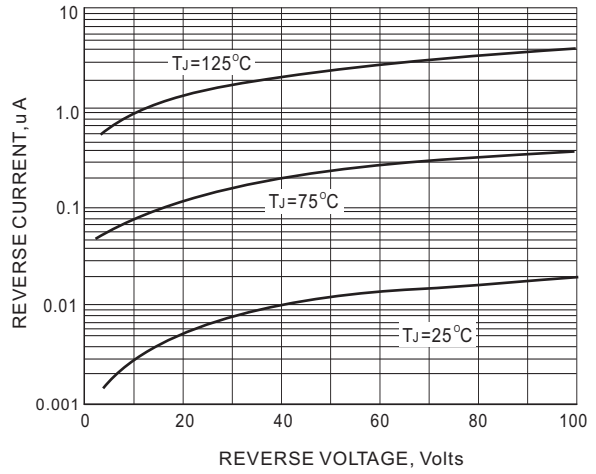


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

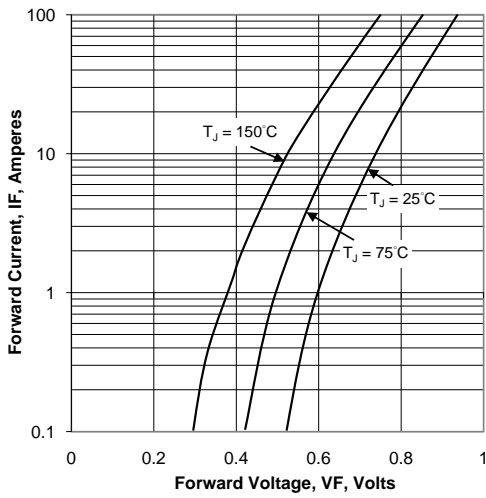


FIG. 3 TYPICAL FORWARD CHARACTERISTIC

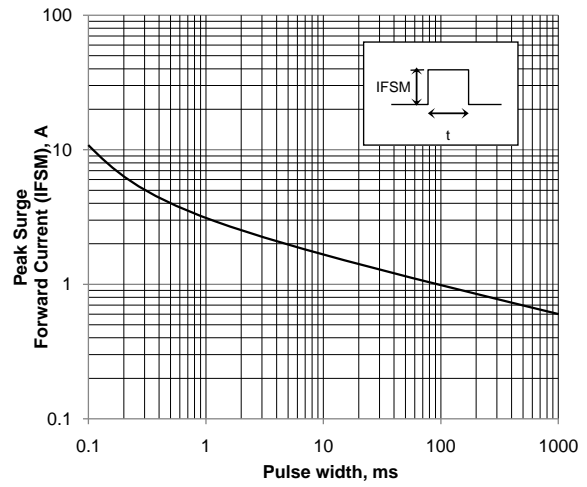
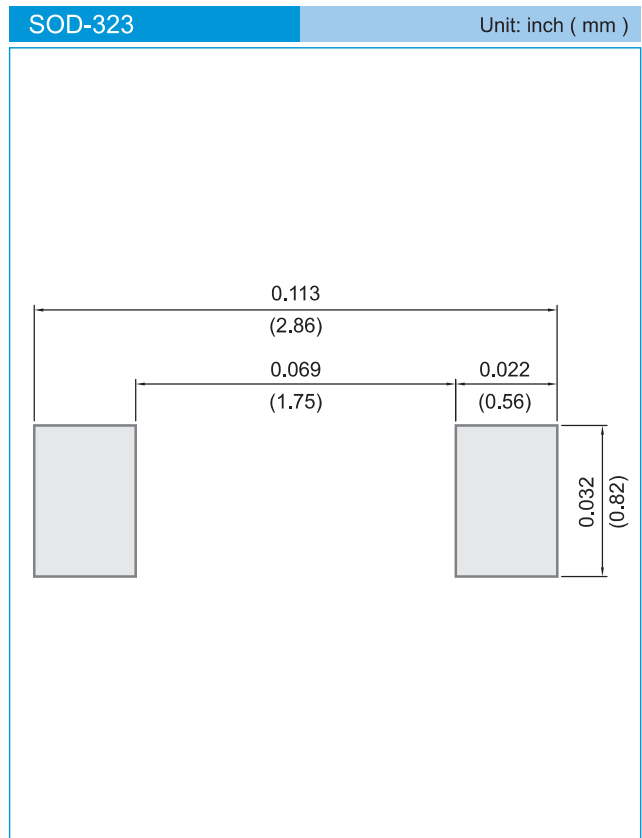


FIG.4-SURGE CURRENT



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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 5K per 7" plastic Reel

LEGAL STATEMENT

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