

1SS355VMTE-17

SURFACE MOUNT SWITCHING DIODE

VOLTAGE 90 Volt **POWER** 200 mW

SOD-323

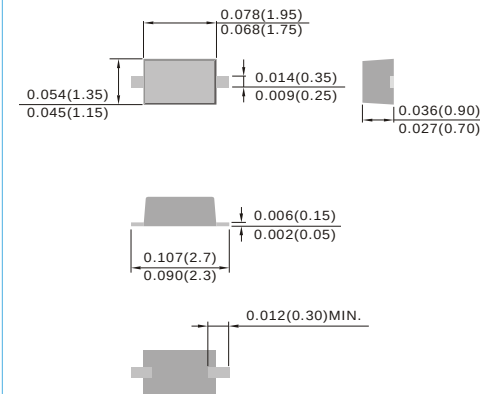
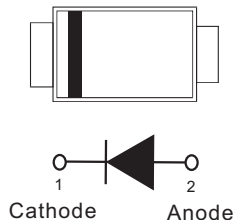
Unit : inch(mm)

FEATURES

- Small surgance mounting type (SOD-323)
- High Speed ($T_{RR}=1.2\text{ns}$ Typ)
- High reliability with surge current handling capability
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-323 plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Approx Weight: 0.00014 ounces, 0.0041 grams
- Silicon epitaxial planar
- Marking: 355



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 $t_p=1000\text{ms}(1\text{sec})$	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	$I_F=100\text{mA}$
Reverse Current	I_R	--	--	0.1	μA	$V_R=80\text{V}$
Capacitance Between Terminals	C_T	--	--	3	pF	$V_R=0\text{V}, f=1\text{MHz}$
Reverse Recovery Time	T_{RR}	--	--	4	ns	$V_R=6\text{V}, I_F=10\text{mA}, R_L=100\Omega$

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

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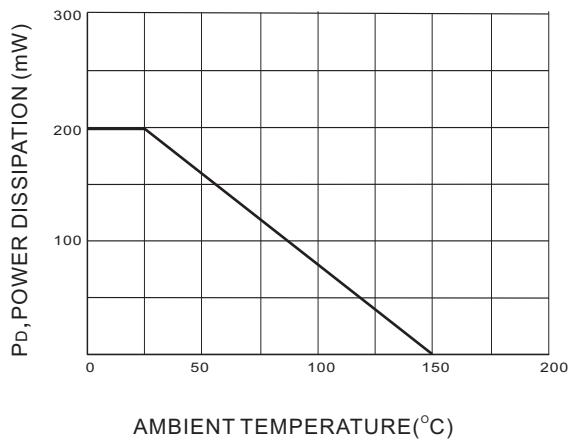


FIG. 1 POWER DERATING CURVE

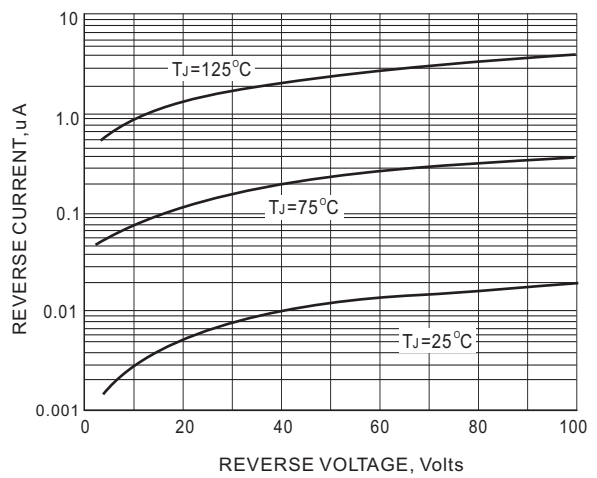


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

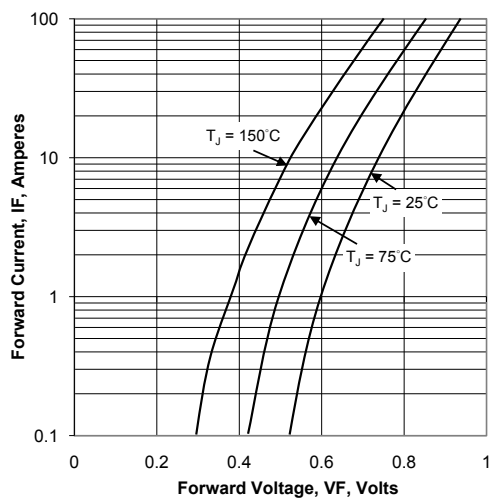


FIG. 3 TYPICAL FORWARD CHARACTERISTIC

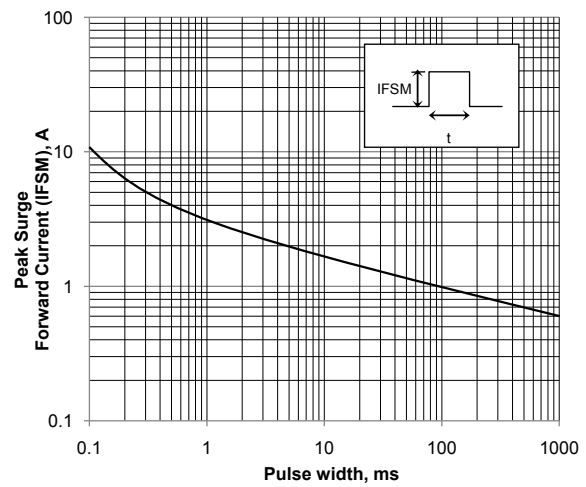
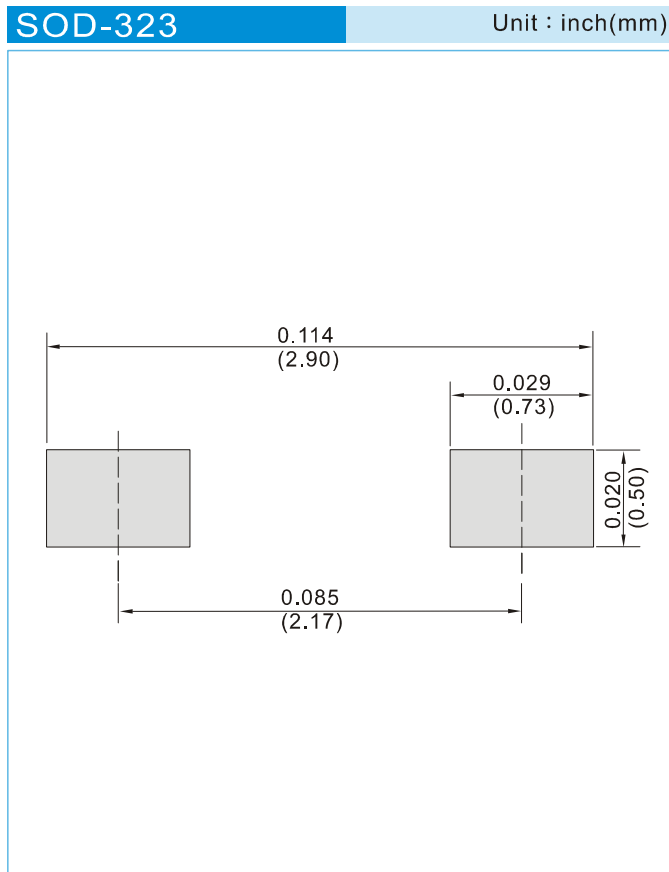


FIG.4-SURGE CURRENT

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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

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Part No_packing code_Version

1SS355_R1_00001

1SS355_R2_00001

For example :

RB500V-40_R2_00001

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

Packing Code XX				Version Code XXXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			