



# 1SS355

## SURFACE MOUNT SWITCHING DIODE

**VOLTAGE** 90 Volts **POWER** 200 mW

**SOD-323** Unit : inch(mm)

### FEATURES

- Small surface mounting type (SOD-323)
- High Speed ( $T_{RR}=1.2\text{ns}$  Typ)
- High reliability with surge current handling capability
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL D5H5

Case: SOD-323 plastic

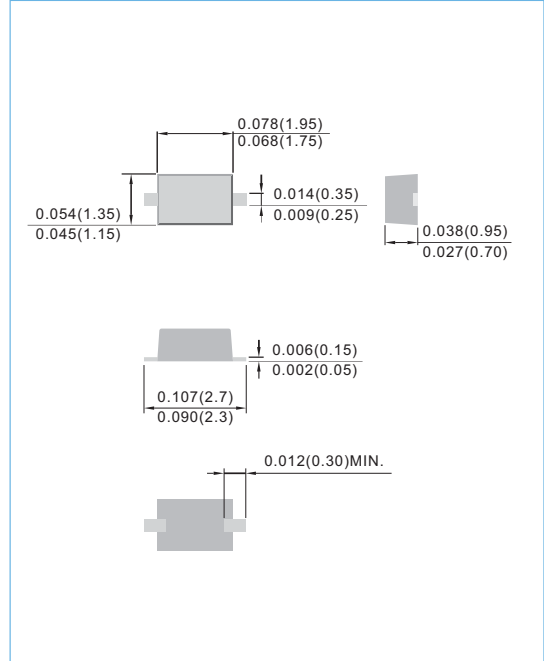
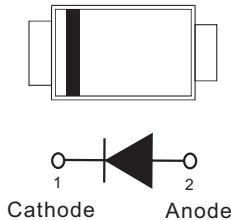
Terminals : Solderable per MIL-STD-750,Method 2026

Polarity : Color band cathode

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 $t_p=100\text{ms}(1\text{sec})$	$I_{FSM}$	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	$\mu\text{A}$	$V_R=80\text{V}$
Capacitance Between Terminals	$C_T$	--	--	3.0	pF	$V_R=0\text{V}, f=1\text{MHz}$
Reverse Recovery Time	$T_{RR}$	--	--	4.0	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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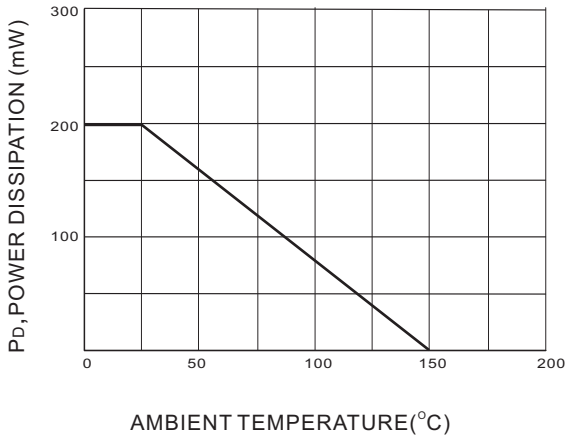


FIG. 1 POWER DERATING CURVE

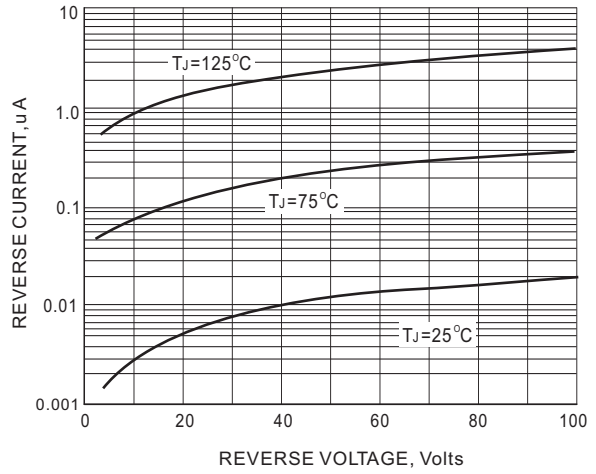


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

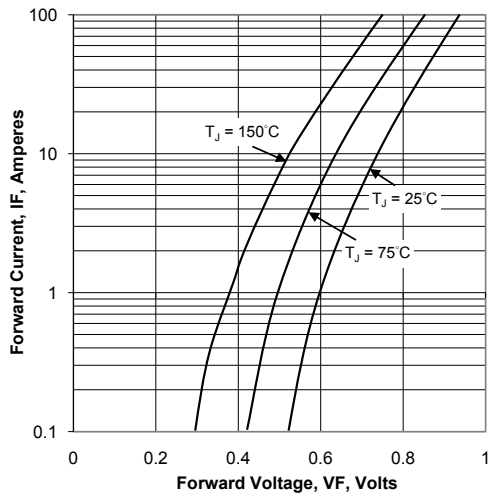


FIG. 3 TYPICAL FORWARD CHARACTERISTIC

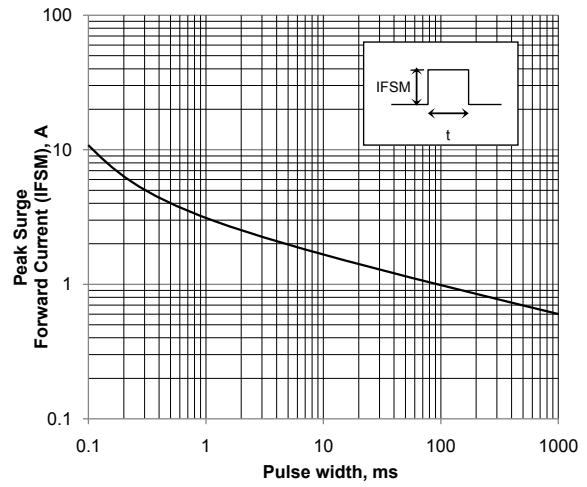
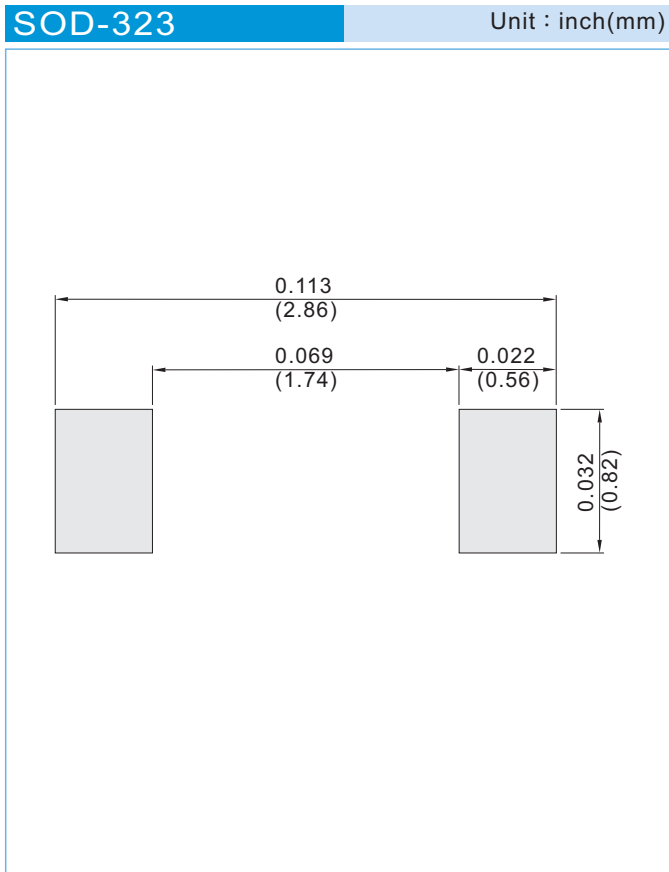


FIG.4-SURGE CURRENT



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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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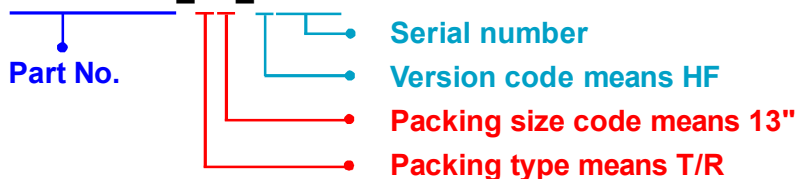
## Part No\_packing code\_Version

FÙHÍ Í\_R1\_00001

1SS355\_R2\_00001

For example :

**RB500V-40\_R2\_00001**



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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			



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