



# 1SS355

## SURFACE MOUNT SWITCHING DIODE

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

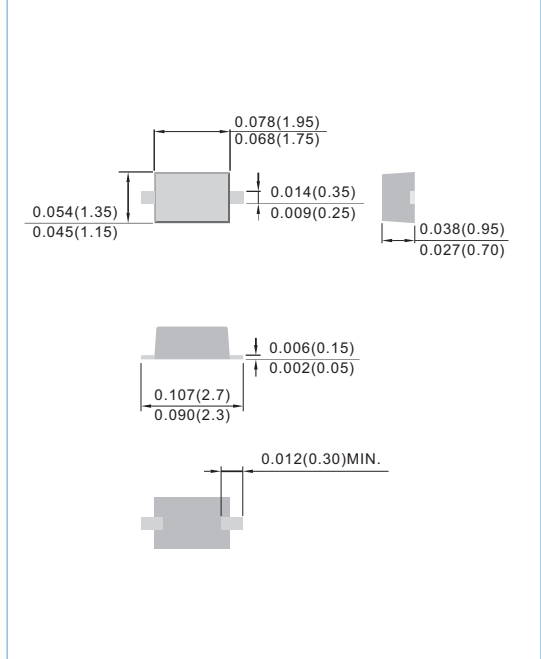
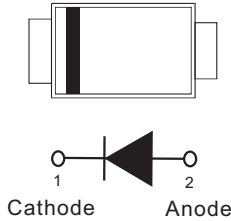
**SOD-323** Unit : inch(mm)

### FEATURES

- Small surface mounting type (SOD-323)
- High Speed ( $T_{RR}=1.2ns$  Typ)
- High reliability with surge current handling capability
- Silicon epitaxial planar
- Lead free

### MECHANICAL D5H5

Case: SOD-323 plastic  
 Terminals : Solderable per MIL-STD-750,Method 2026  
 Polarity : Color band cathode  
 Approx Weight: 0.0001 ounces, 0.004 grams  
 Silicon epitaxial planar  
 Terminal 1



### 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 $t_p=100ms(1sec)$	$I_{FSM}$	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	$\mu A$	$V_R=80V$
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



# 1SS355

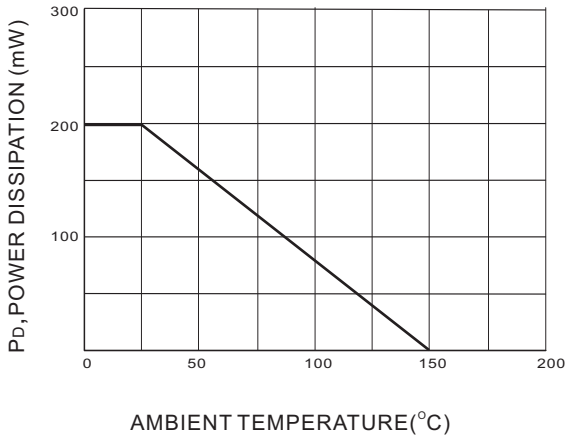


FIG. 1 POWER DERATING CURVE

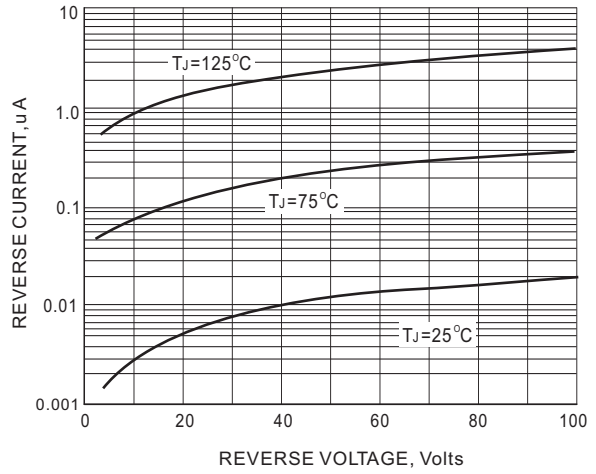


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

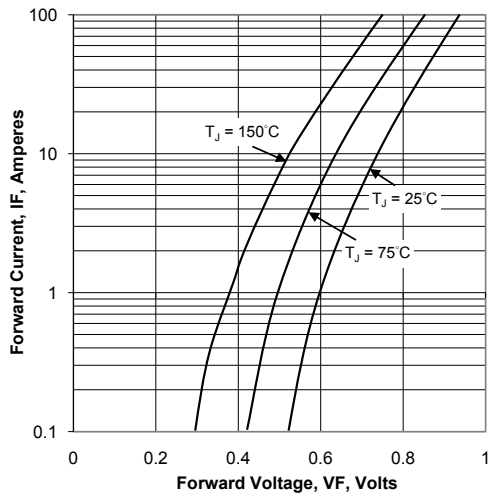


FIG. 3 TYPICAL FORWARD CHARACTERISTIC

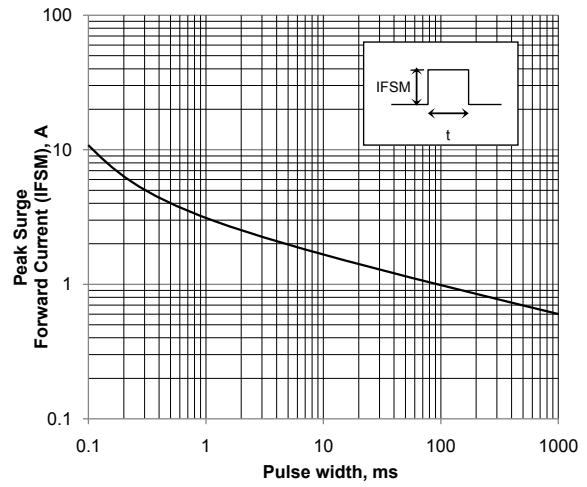
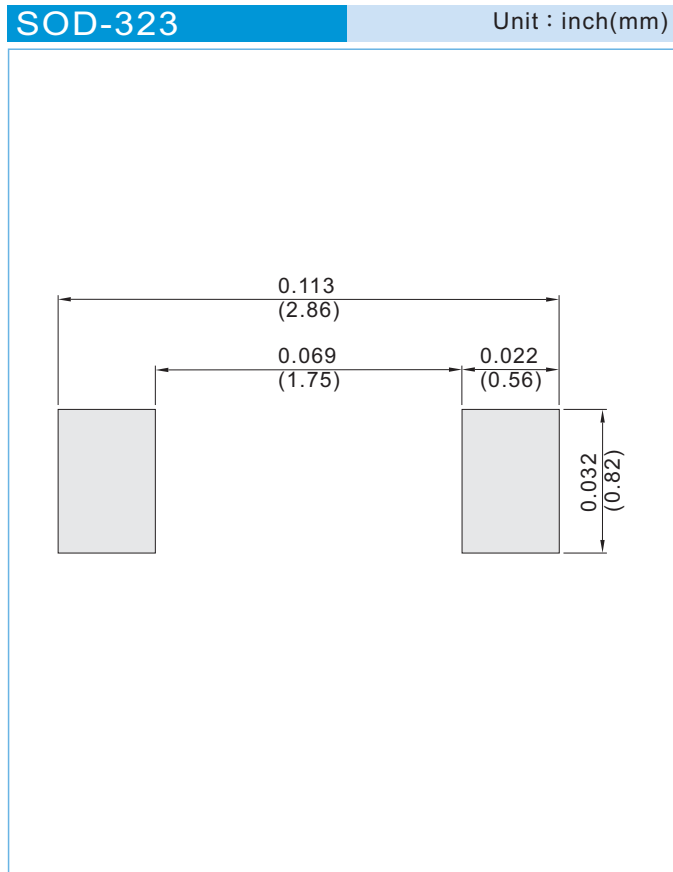


FIG.4-SURGE CURRENT



# 1SS355

## MOUNTING PAD LAYOUT



### ORDER INFORMATION

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

### LEGAL STATEMENT

#### Copyright PanJit International, Inc 2012

The information presented in this document is believed to be accurate and reliable. The specifications and information herein are subject to change without notice. Pan Jit makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose. Pan Jit products are not authorized for use in life support devices or systems. Pan Jit does not convey any license under its patent rights or rights of others.