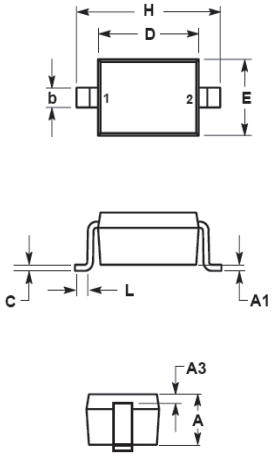
HAICHUANG SEMI

1SS355

SILICON EPITAXIAL PLANAR SWITCHING DIODE

Features

- Small plastic package suitable for surface mounted design.
- High reliability with high surge current handling capability.
- Marking Code:A



SOD-323		
Dim.	Min.	Max.
A	0.80	1.10
A1	0.00	0.10
A3	0.15 REF	
B	0.25	0.40
C	0.10	0.15
D	1.60	1.80
E	1.15	1.35
L	0.20	0.50
H	2.30	2.80
Dimensions in millimeter		

Maximum Ratings @ T_A = 25°C unless otherwise specified

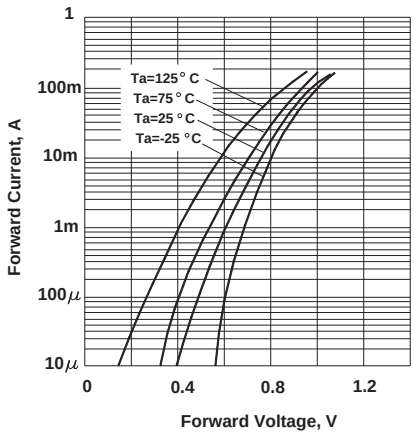
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	90	V
DC Reverse Voltage	V_R	80	V
Mean Rectifying Current	I_O	100	mA
Peak Forward Current	I_{FM}	225	mA
Surge Current (1 s)	I_{surge}	500	mA
Junction Temperature	T_j	125	°C
Storage Temperature Range	T_{stg}	- 55 to + 125	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

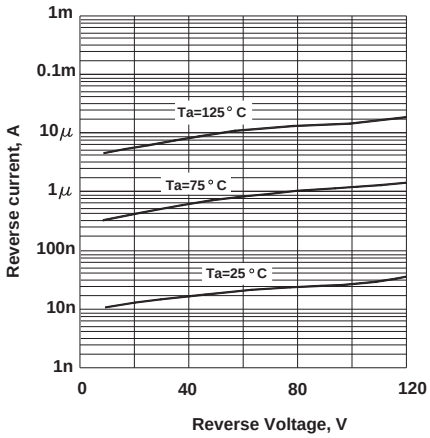
Parameter	Symbol		Unit
Forward Voltage at I_F = 100 mA	V_F	1.2	V
Reverse Current at V_R = 80 V	I_R	0.1	μA
Capacitance between Terminals at V_R = 0.5 V, f = 1 MHz	C_T	3	pF
Reverse Recovery Time at V_R = 6 V, I_F = 10 mA, R_L = 100 Ω	t_{rr}	4	nS

TYPICAL TRANSIENT CHARACTERISTICS

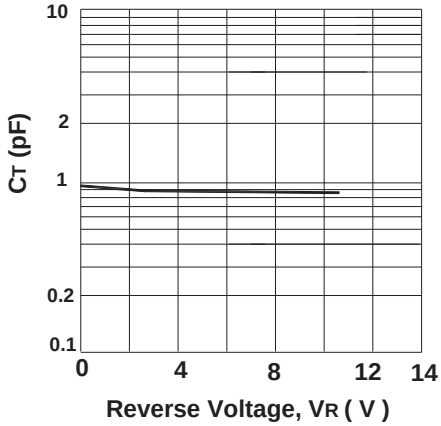
Forward Characteristics



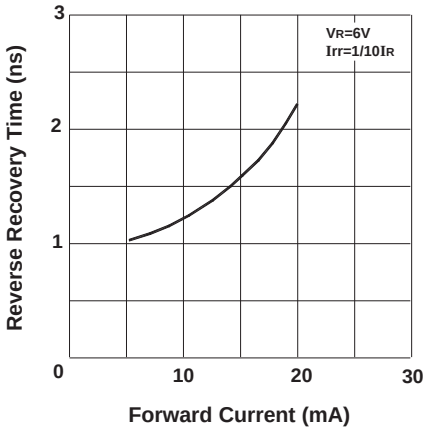
Reverse Characteristics



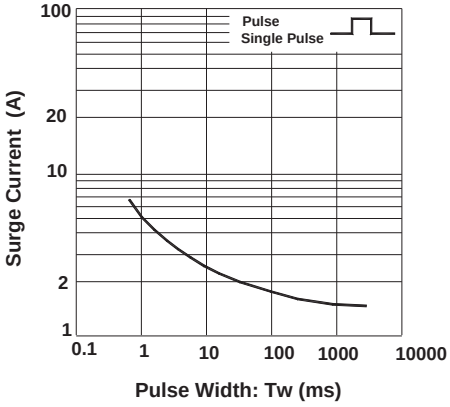
Capacitance between terminals characteristics



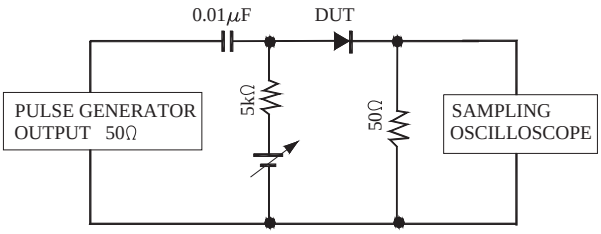
Reverse Recovery Time Characteristics



Surge Current Characteristics



Reverse Recovery Time Measurement Circuit



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