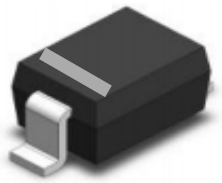
1SS355WS

FAST SWITCHING DIODE

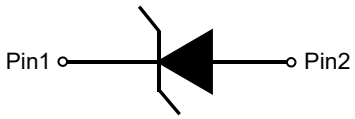


SOD-323

FEATURES

- **Small surface mounting type**
- **High speed**
- **High reliability with high surge current handling capability**

MARKING: A



Circuit diagram

Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25℃

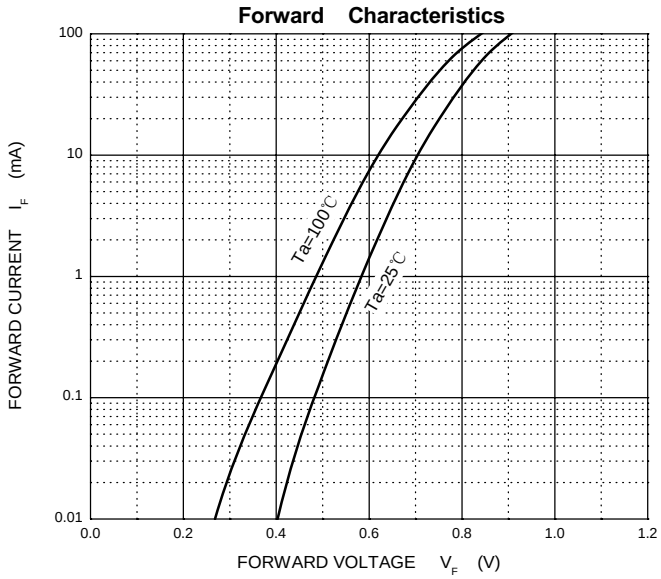
Parameter	Symbol	Limit	Unit
Non-repetitive peak reverse voltage	V_{RM}	90	V
DC blocking voltage	V_R	80	V
Peak forword current	I_{FM}	225	mA
Average rectified output current	I_O	100	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	2.0	A
Power Dissipation	P_D	200	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	625	℃/W
Junction temperature	T_J	150	℃
Storage temperature	T_{STG}	-55~+150	℃

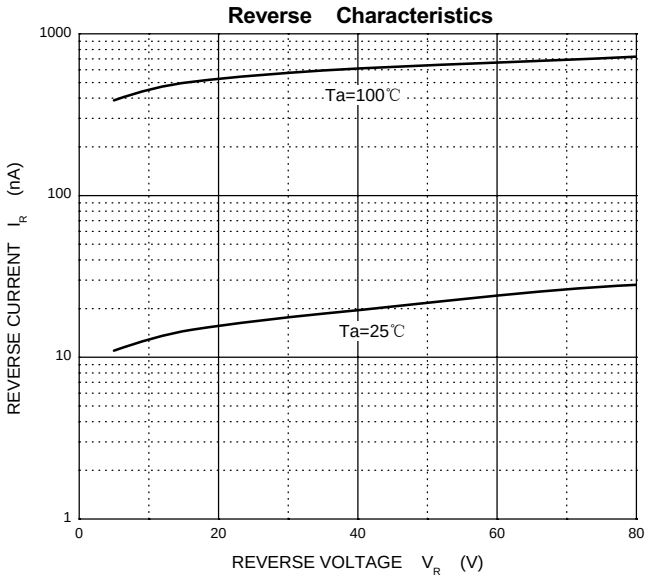
Electrical Ratings @Ta=25℃

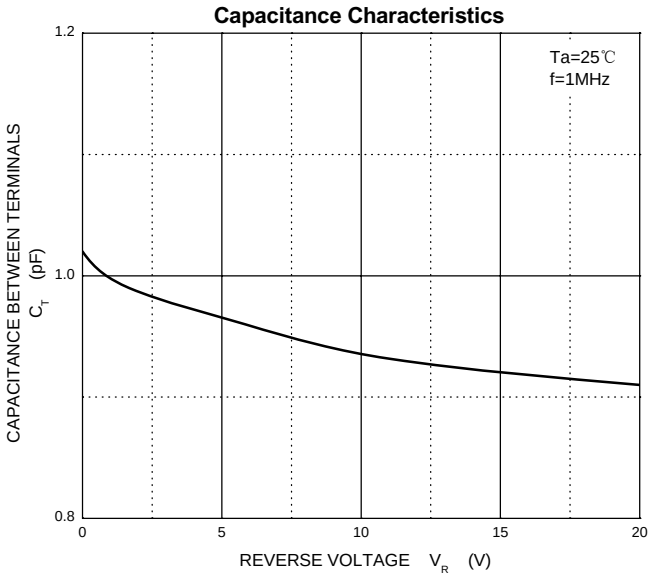
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V_F			1.2	V	I_F=100mA
Reverse current	I_R			0.1	μA	V_R=80V
Capacitance between terminals	C_T			3	pF	V_R=0.5V,f=1MHz
Reverse recovery time	t_{rr}			4	ns	I_F=10mA ,V_R=6V,R_L=100Ω

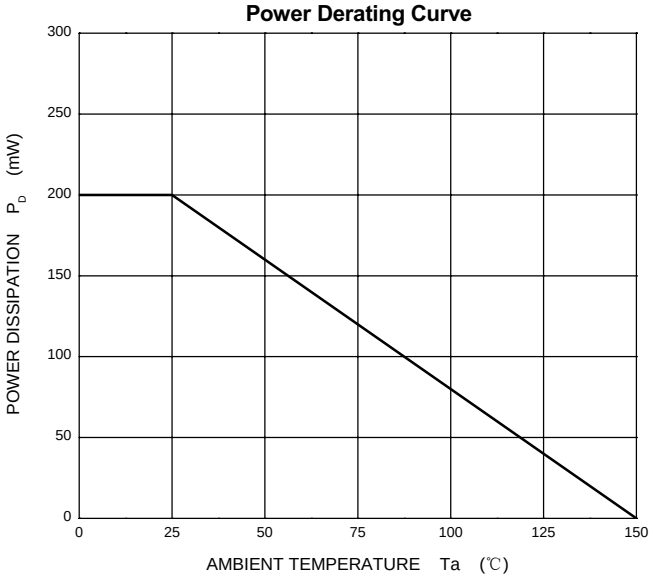
FAST SWITCHING DIODE

Typical Characteristics



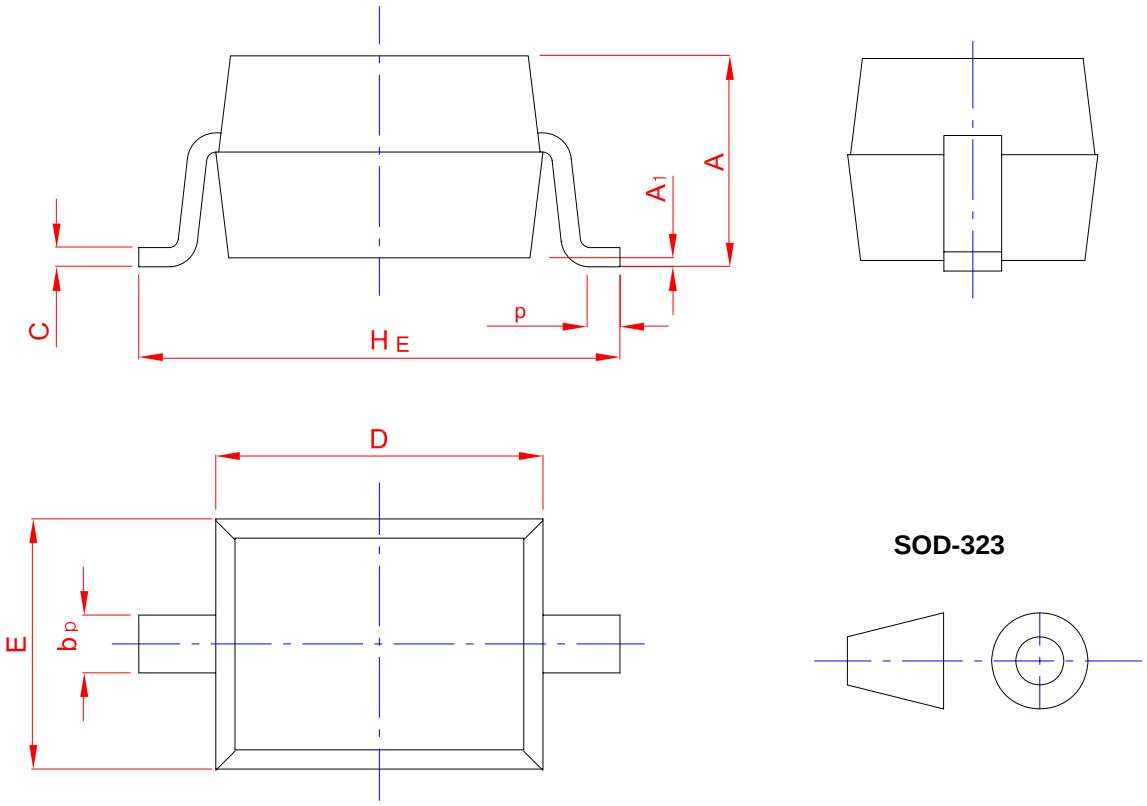






FAST SWITCHING DIODE

PACKAGE OUTLINE



SOD-323

UNIT	A	b_p	C	D	E	H_E	A_1	L_p
mm	1.20 0.80	0.40 0.25	0.15 0.10	1.80 1.60	1.35 1.15	2.80 2.30	0.10 0.01	0.50 0.20

SOD-323 Suggested Pad Layout

