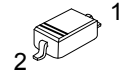


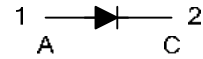
■ **FEATURES**

- \* Low reverse current
- \* Surface mount package ideally suited for automatic insertion
- \* Fast switching speed
- \* For general purpose switching applications

SYMBOL



SOD-323



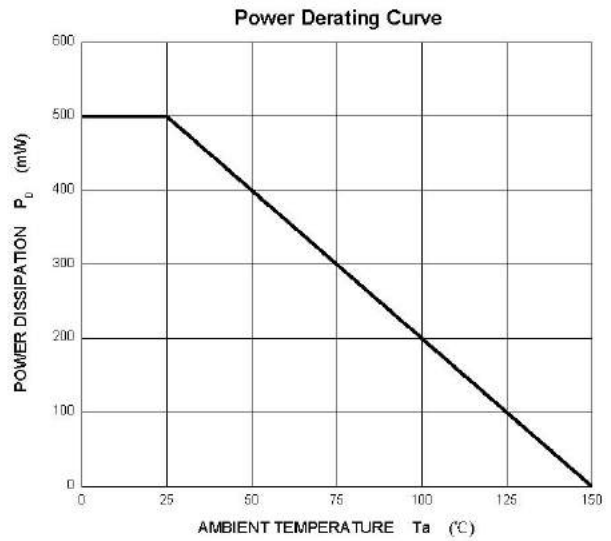
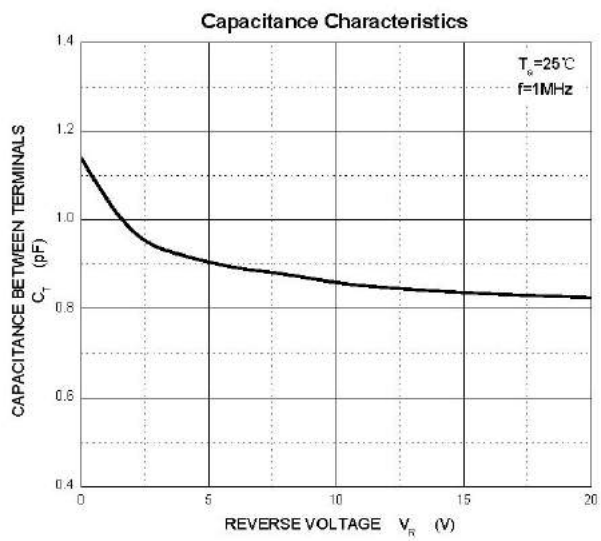
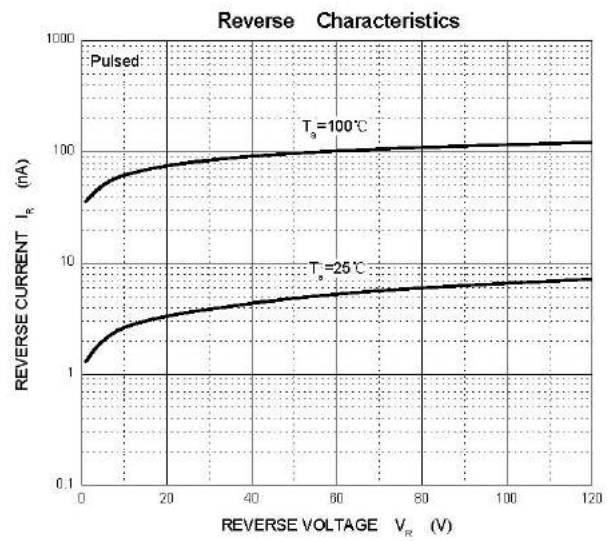
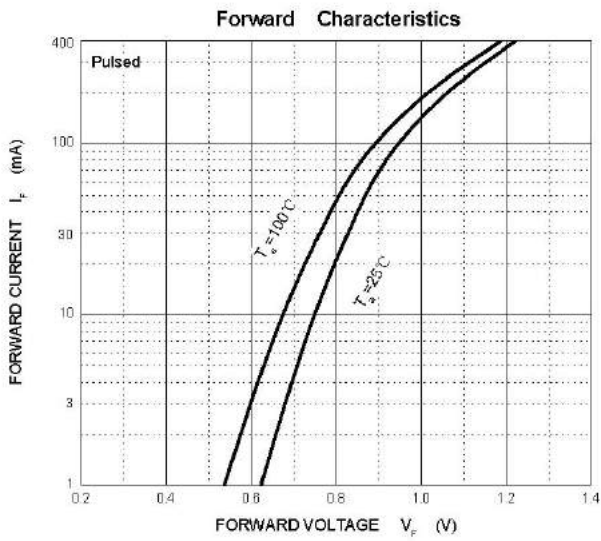
■ **ABSOLUTE MAXIMUM RATINGS** ( $T_A=25^\circ\text{C}$ , unless otherwise specified)

PARAMETER	SYMBOL	VALUE	UNIT
Non-repetitive peak reverse voltage	$V_{RM}$	250	V
Peak repetitive reverse voltage	$V_{RRM}$	200	V
Working peak reverse voltage	$V_{RWM}$	200	V
RMS reverse voltage	$V_{R(RMS)}$	141	V
Average rectified output current	$I_o$	200	mA
Non-repetitive peak forward surge current @ $t = 8.3\text{ms}$	$I_{FSM}$	2.0	A
Power dissipation	$P_D$	500	mW
Thermal resistance from junction to ambient	$R_{\theta JA}$	250	$^\circ\text{C/W}$
Operating junction and storage temperature range	$T_j, T_{stg}$	-55 ~ 150	$^\circ\text{C}$

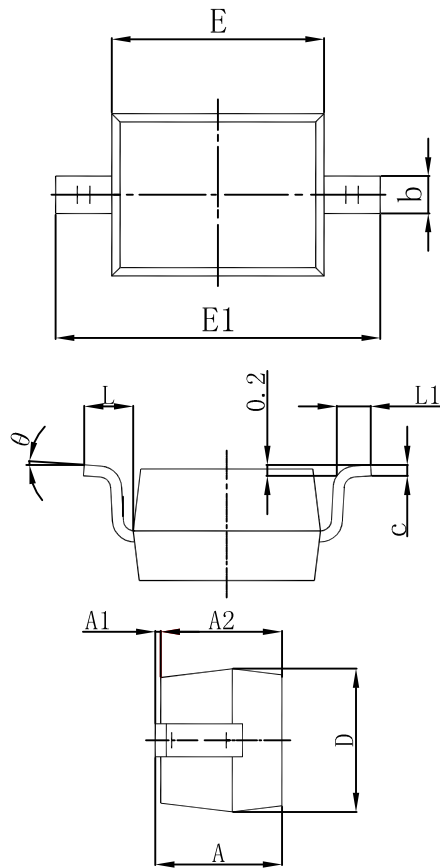
■ **ELECTRICAL CHARACTERISTICS** ( $T_A=25^\circ\text{C}$ , unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Forward voltage	$V_{F1}$	$I_F = 100\text{mA}$	-	-	1	V
	$V_{F2}$	$I_F = 200\text{mA}$	-	-	1.25	V
Reverse current	$I_R$	$V_R = 200\text{V}$	-	-	0.1	$\mu\text{A}$
Capacitance between terminals	$C_T$	$V_R = 0\text{V}, f = 1\text{MHz}$	-	-	5	pF
Reverse recovery time	$t_{rr}$	$I_F = I_R = 30\text{mA}, I_{rr} = 3\text{mA}, R_L = 100\Omega$	-	-	50	ns

■ TYPICAL CHARACTERISTICS



■ SOD323 PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters	
	Min	Max
A		1.100
A1	0.000	0.100
A2	0.800	1.000
b	0.250	0.350
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.750
L	0.475 REF	
L1	0.250	0.400
$\theta$	0°	8°