

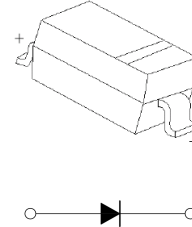


SOD-323 Plastic-Encapsulate Diodes

MA729

SWITCHING DIODE

SOD-323



FEATURES

- For Small Current Rectification
- For Super High Speed Switching
- High-density Mounting is Possible

MARKING: 2B

MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_R	DC Blocking Voltage	30	V
V_{RRM}	Repetitive Peak Reverse Voltage	30	V
I_F	Forward Current	200	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current @ 10ms half sine wave	1	A
P_D	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	500	$^{\circ}\text{C}/\text{W}$
T_j	Junction Temperature	125	$^{\circ}\text{C}$
T_{stg}	Storage Temperature	-55~+150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=100\mu\text{A}$	30			V
Reverse current	I_R	$V_R=30\text{V}$			50	μA
Forward voltage	V_F	$I_F=200\text{mA}$			0.55	V
Total capacitance	C_{tot}	$V_R=0\text{V}, f=1\text{MHz}$		30		pF
Reverse recovery time	t_{rr}	$I_F=I_R=100\text{mA}, I_{rr}=0.1 \times I_R, R_L=100\Omega$		3		ns