



Micro Commercial Components

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CMDSH-3

Features

- Low Turn-on Voltage
- Fast Switching
- Ultra-Small Surface Mount Package
- PN Junction Guard Ring for Transient and ESD Protection
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Schottky Diode

Maximum Ratings

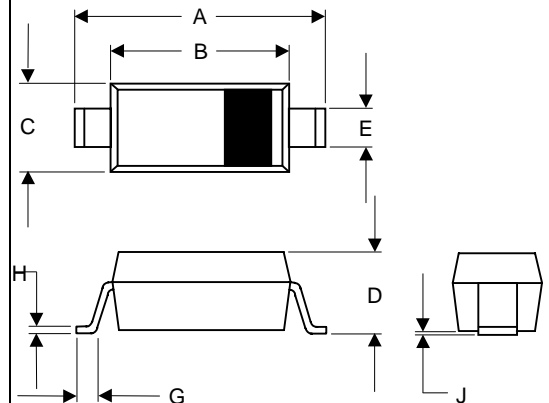
Symbol	Parameter	Rating	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	30	V
V_R	DC Blocking Voltage	21	V
I_O	Average Rectified Output Current	100	mA
I_{FSM}	Peak Forward Surge Current	750	mA
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	500	$^{\circ}C/W$
P_D	Power dissipation	250	mW
T_J	Junction Temperature	125	$^{\circ}C$
T_{STG}	Storage Temperature	-65 to +150	$^{\circ}C$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Test Conditions
$V_{(BR)}$	Reverse Breakdown Voltage	30V		$I_R=100 \mu A$
I_R	Reverse Voltage Leakage Current		1.0 μA	$V_R=25V$
V_F	Forward Voltage	.30V .36V	.55V .80V	$I_F=2mA$ $I_F=15mA$ $I_F=50mA$ $I_F=100mA$
C_T	Total Capacitance		7pF	$V_R=10V, f=1MHz$

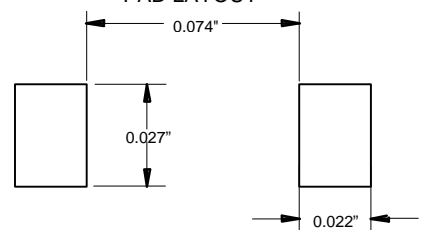
Marking: S1

SOD323



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
E	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
H	.004	.010	0.10	0.25	
J	-----	.006	-----	0.15	

SUGGESTED SOLDER PAD LAYOUT





TM

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