

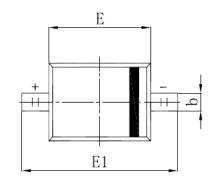
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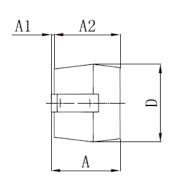
CMDSH-3 SCHOTTKY BARRIER DIODE

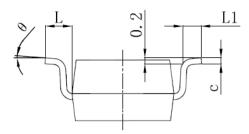
Description:

CMDSH-3 type is a silicon Schottky diode, manufactured in a surface mount package, designed for fast switching applications requiring a low forward voltage drop.

Mechanical Dimensions: In mm / Inches







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α		1.000		0.039	
A1	0.000	0.100	0.000	0.004	
A2	0.800	0.900	0.031	0.035	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.500	2.700	0.098	0.106	
L	0.475 REF		0.019 REF		
L1	0.250	0.400	0.010	0.016	
θ	0°	8°	0°	8°	

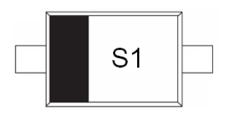
SOD-323

- China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com •



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Marking Diagram:



S1 = Part Name

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
CMDSH-3	SOD-323	3000pcs / reel
CIVIDSTI-3	(Pb-Free)	3000pcs / Teel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.



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Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit	
Peak Reverse Voltage	V_{RRM}	30	V	
Average Forward Current	Io	100	mA	
Power Dissipation	P _D	250	mW	
Power Dissipation(T _L = 25°C)	P _D	833	mW	
Peak Forward Surge Current (tp=8.3ms)	IFSM	750	mA	
Operating Junction Temperature Range	TJ	-65 to +150	°C	
Storage Temperature Range	T _{STG}	-65 to +150	°C	
Thermal Resistance	R _{OJA}	500	°C/W	
Thermal Resistance	R _{⊝JL} 150 °		°C/W	
Case Style	SOD-323			

Electrical Characteristics:

Characteristics	Symbol	Condition	Min	Тур.	Max.	Units
Forward Voltage Drop	V_{F}	$@I_F = 50 \text{mA}, T_A = 25 ^{\circ}\text{C}$	-	-	0.55	V
		$@I_F = 100 \text{mA}, T_A = 25 ^{\circ}\text{C}$	-	-	0.80	
Reverse Recovery Voltage	V_{BR}	@I _F = 100uA	30	-	-	V
Reverse Current	I _R	@V _R = 25V, T _J = 25 °C	-	-	10	uA
Typical Junction	Cj	@V _R =10.0 V, Tc=25°C	-	7.0	-	pF
Capacitance		fsig = 1MHz				

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