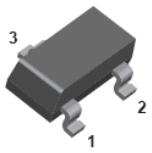
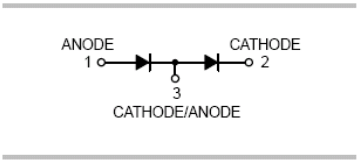
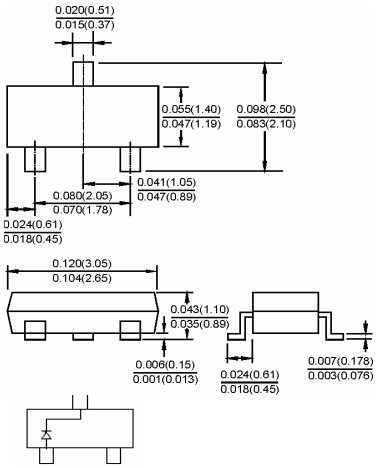
CMSD2004

Surface Mount Switching Diode





SOT-23



Dimensions in inches and (millimeters)

Features

✧ The central semiconductor cmsd2004 stype is a silicon switching dual in series diode manufactured by the epitaxial planar, designed for applications requiring high voltage capability. power dissipation.

Applications

✧ High speed switching application.

Ordering Information

Type No.	Marking	Package Code
CMSD2004	B6D	SOT-23

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Characteristic	Symbol	Limits	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	300	V
DC Reverse Voltage	V_R	240	V
Peak Repetitive Current	I_F	225	mA
Forward Continuous Current	I_o	200	mA
Peak Repetitive Forward Current	I_{FRM}	625	mA
Peak forward surge current @=1.0μs @=1.0s	I_{FSM}	4.0 1.0	A
Power Dissipation	P_d	250	mW
Operating Junction Temperature Range	T_j	150	℃
Storage Temperature Range	T_{STG}	-65 to +150	℃

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ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Characteristic	Symbol	Min	MAX	UNIT	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	240		V	I_R= 100μA
Forward Voltage	V_F		1	V	I_F=100mA
Reverse Leakage Current	I_R		0.1	mA	V_R=240V
Diode Capacitance	C_D		5	pF	V_R=0V,f=1MHz
Reverse Recovery Time	t_{rr}		4.0	ns	I_F=I_R=10mA R_L=100Ω

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified