

Surface mount switching diode

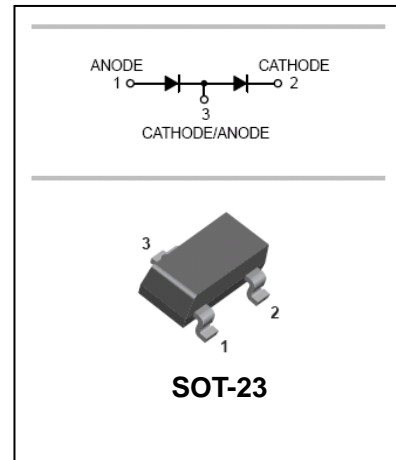
**CMSD2004S**

**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.



Lead-free



**APPLICATIONS**

- High speed switching application.

**ORDERING INFORMATION**

Type No.	Marking	Package Code
CMSD2004S	B6D	SOT-23

**MAXIMUM RATING @ Ta=25°C 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	$I_{FSM}$	4.0 1.0	A
	@=1.0μs @=1.0s		
Power Dissipation	$P_d$	250	mW
Operating Junction Temperature Range	$T_j$	150	°C
Storage Temperature Range	$T_{STG}$	-65 to +150	°C



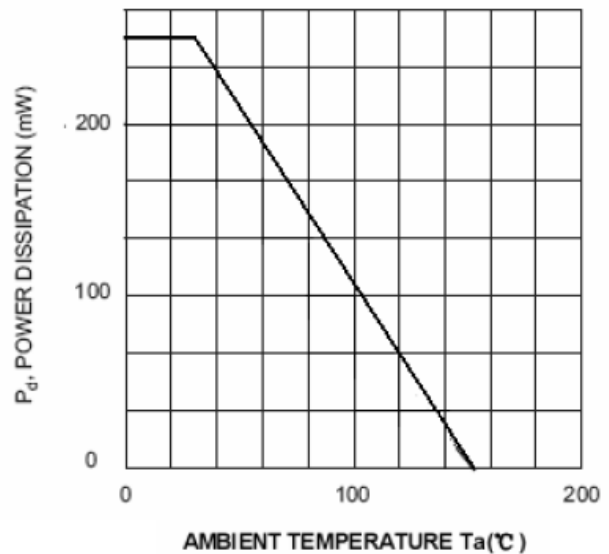
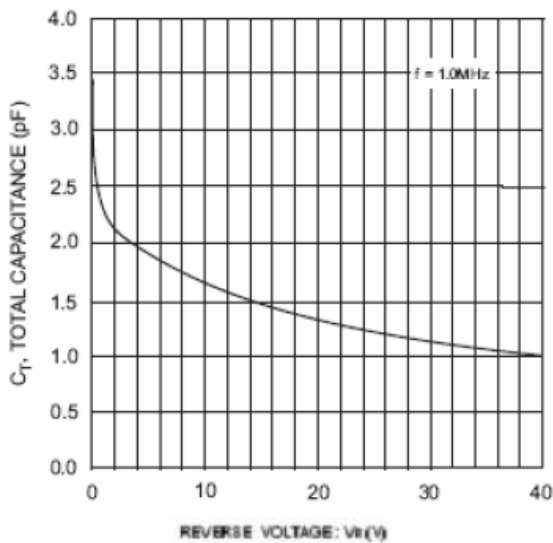
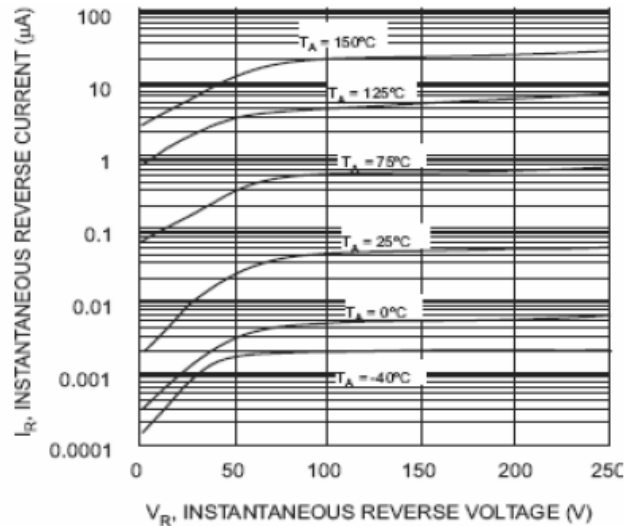
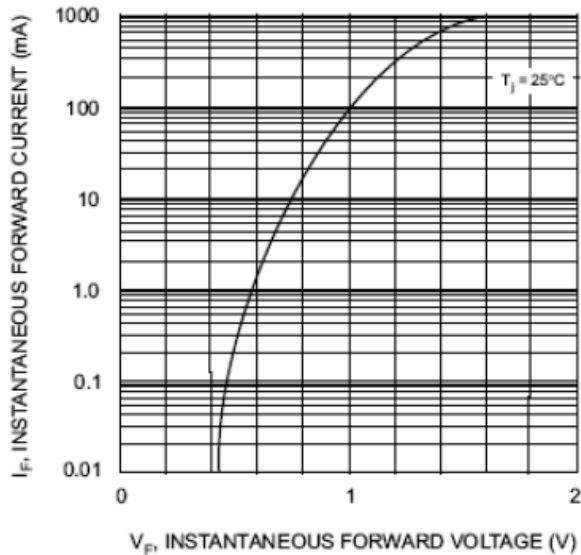
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ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Min	MAX	UNIT	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	240		V	$I_R = 100\mu A$
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	$t_{rr}$		50	ns	$I_F = I_R = 30mA$ $R_L = 100\Omega$

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



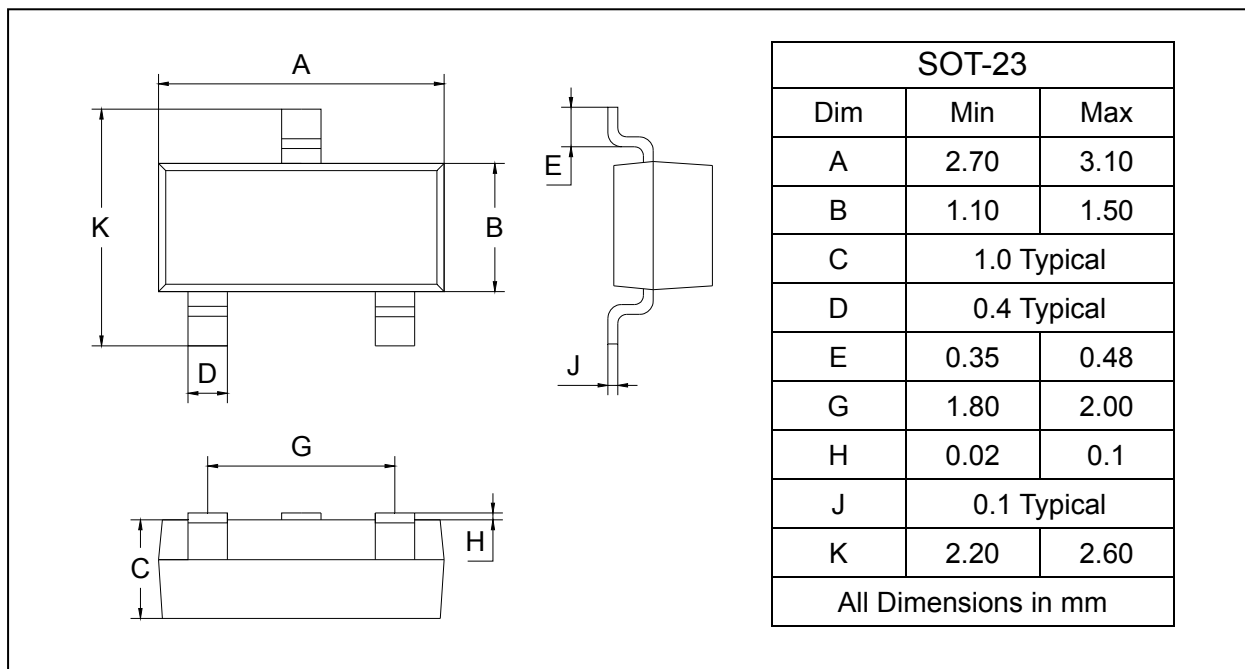
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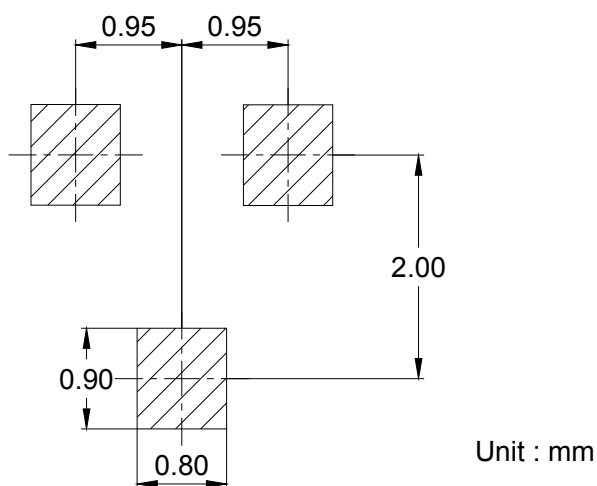
PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
CMSD2004S	SOT-23	3000/Tape&Reel