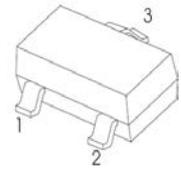


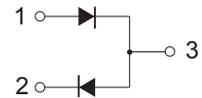
#### FEATURES

CMSD2004S type is a silicon switching dual in series diode manufactured by the epitaxial planar process, designed for applications requiring high voltage capability. Power dissipation

MARKING : B6D



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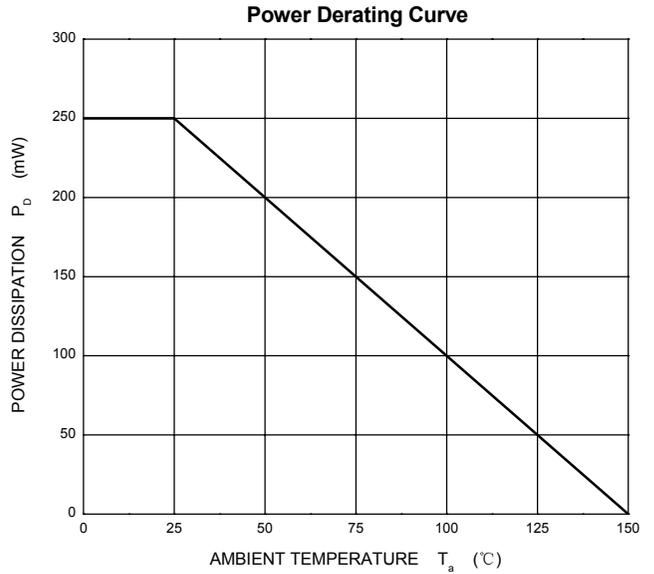
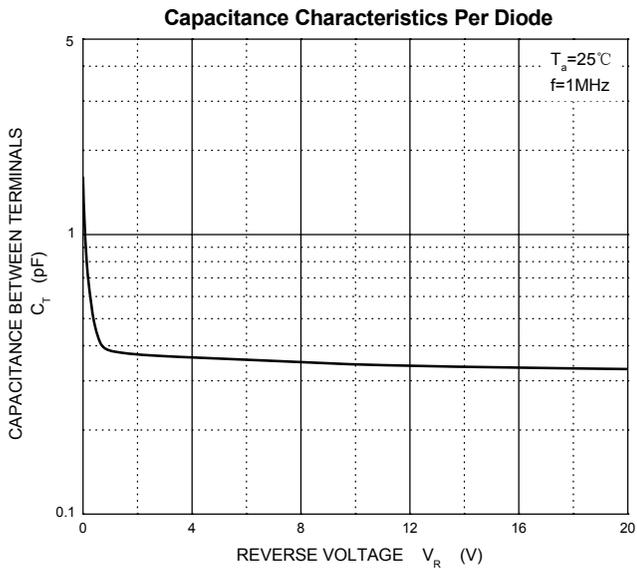
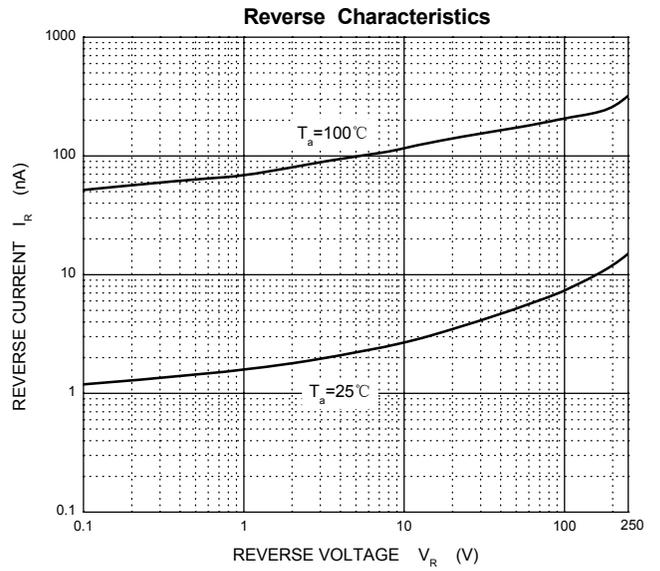
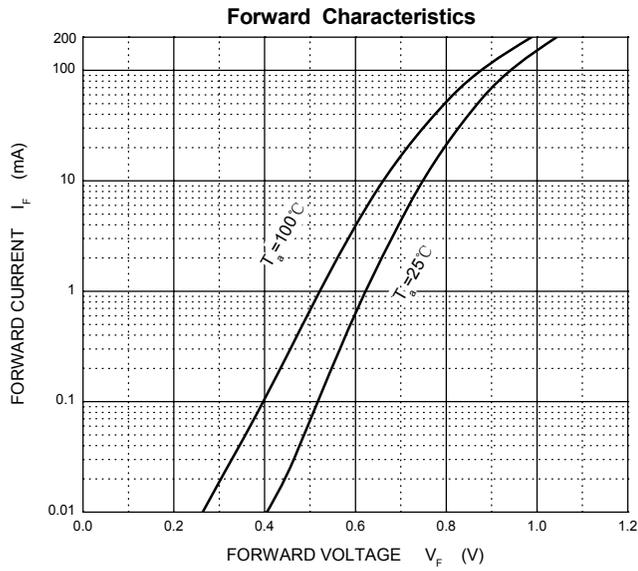


#### Maximum Ratings @Ta=25°C

Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	300	V
DC Blocking Voltage	$V_R$	240	V
Reverse Current	$I_o$	200	mA
Continuous Forward Current	$I_F$	225	mA
Peak Repetitive Forward Current	$I_{FRM}$	625	mA
Non-Repetitive Peak Forward Surge Current @ t=8.3ms	$I_{FSM}$	2.5	A
Power Dissipation	$P_D$	250	mW
Thermal Resistance From Junction to Ambient	$R_{\theta JA}$	500	°C/W
Operation Junction and Storage Temperature Range	$T_J, T_{STG}$	-55~+150	°C

#### ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

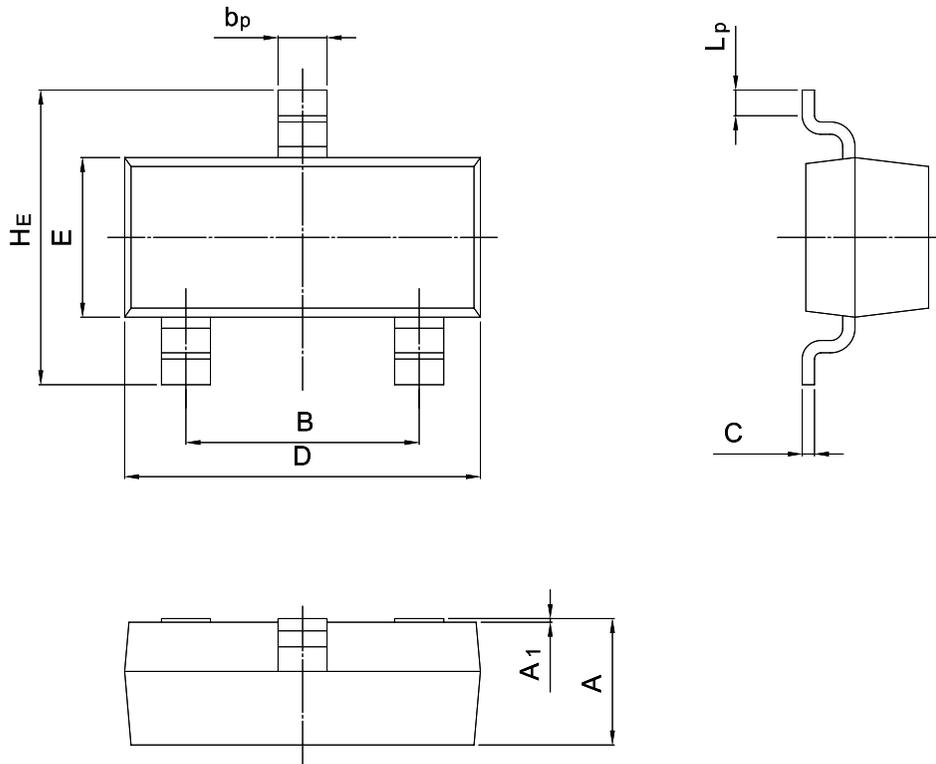
Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R = 100\mu A$	240		V
Reverse voltage leakage current	$I_R$	$V_R = 240V$		0.1	$\mu A$
Forward voltage	$V_F$	$I_F = 100mA$		1	V
Diode capacitance	$C_D$	$V_R = 0V$ f=1MHz		5	pF
Reverse recovery time	$t_{rr}$	$I_F = I_R = 30mA, R_L = 100\Omega$		50	ns



### PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

#### SOT-23



UNIT	A	B	$b_p$	C	D	E	$H_E$	$A_1$	$L_p$
mm	1.40	2.04	0.50	0.19	3.10	1.65	3.00	0.100	0.50
	0.95	1.78	0.35	0.08	2.70	1.20	2.20	0.013	0.20

