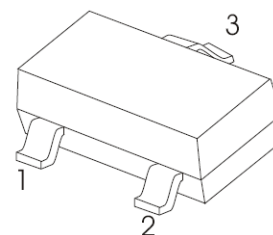
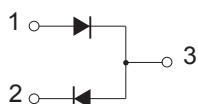


SWITCHING DIODE

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



SOT-323

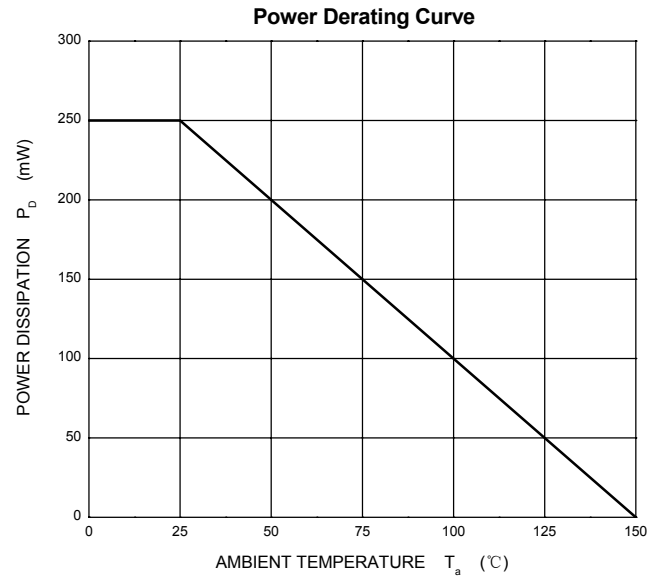
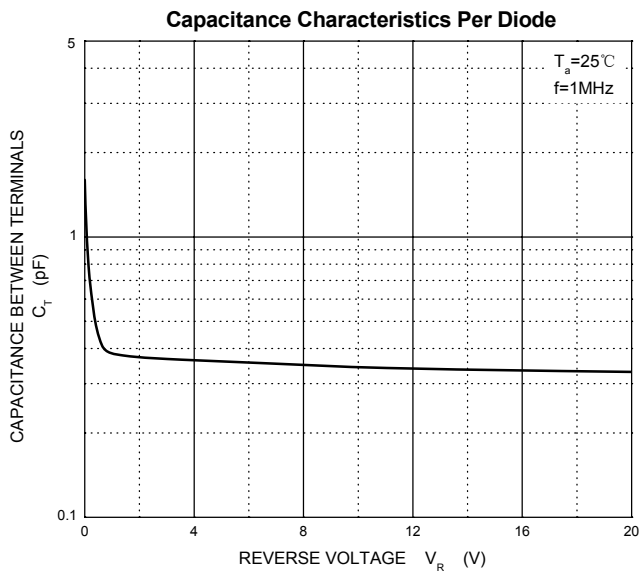
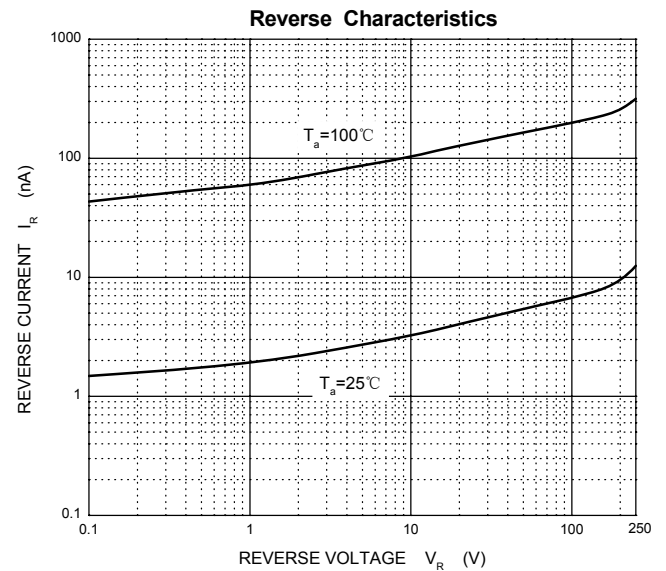
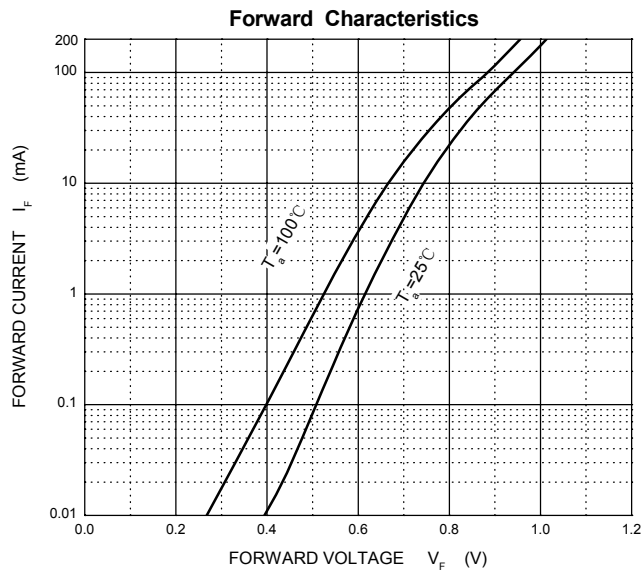
Maximum Ratings @T_a=25°C

Parameter	Symbol	Limit	Unit
Non-Repetitive Peak reverse voltage	V _{RM}	300	V
DC Blocking Voltage	V _R	240	V
Average Rectified Output 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 _{θJA}	500	°C/W
Operation Junction and Storage Temperature Range	T _J , T _{STG}	-55~+150	°C

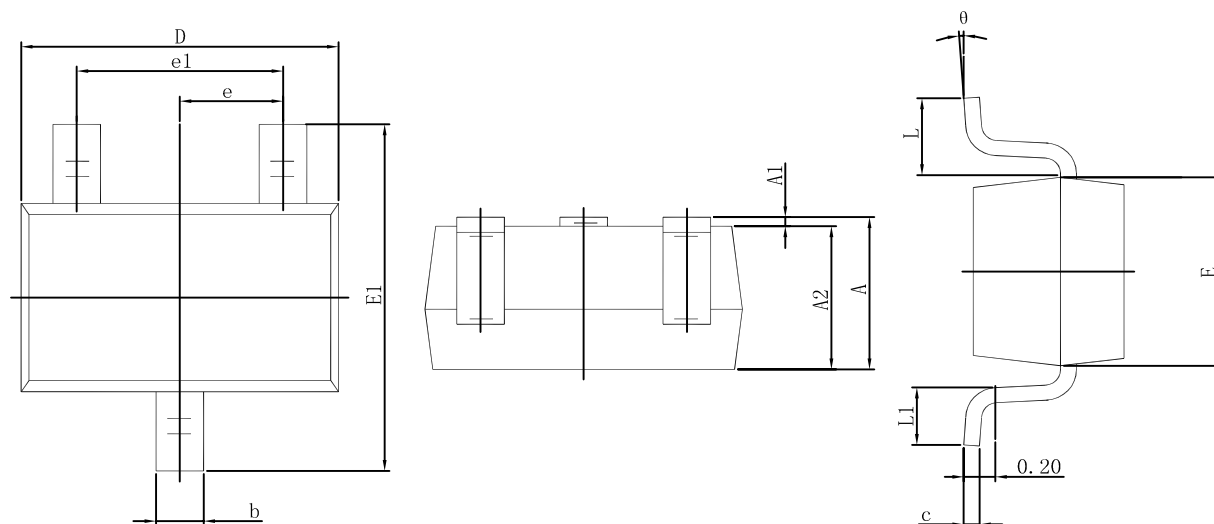
ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R = 100μA	240		V
Reverse voltage leakage current	I _R	V _R =240V		0.1	mA
Forward voltage	V _F	I _F =100mA		1	V
Diode capacitance	C _D	V _R =0V, f=1MHz		5	pF
Reveres recovery time	t _{rr}	I _F =I _R =30mA, R _L =100Ω		50	ns

Typical Characteristics



SOT-323 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.200	0.400	0.008	0.016
c	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP.		0.026 TYP.	
e1	1.200	1.400	0.047	0.055
L	0.525 REF.		0.021 REF.	
L1	0.260	0.460	0.010	0.018
theta	0°	8°	0°	8°