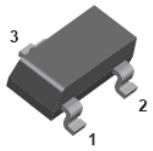
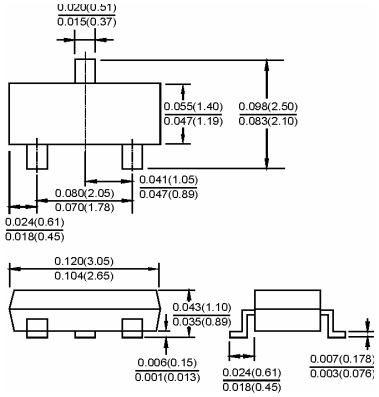
CMPSH-3/A/C/S

Schottky Barrier Diode

SOT-23





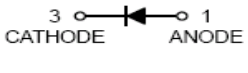
Dimensions in inches and (millimeters)

Features

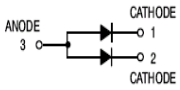
- ✧ Extremely Fast switching speed.
- ✧ Low forward voltage.
- ✧ Power dissipation P_d=350mW
- ✧ Pb/RoHS Free

Applications

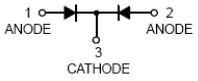
- ✧ Fast switching application.



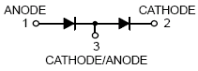
CMPSH-3



CMPSH-3A



CMPSH-3C



CMPSH-3S

Ordering Information

Type No.	Marking	Package Code
CMPSH-3	D95	SOT-23
CMPSH-3A	DB1	SOT-23
CMPSH-3C	DB2	SOT-23
CMPSH-3S	DA5	SOT-23

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Parameter	**Symbol**	**Limits**	**Unit**
Peak Repetitive Peak reverse voltage	V_{RRM}	30	V
Forward Continuous Current	I_F	100	mA
Peak Repetitive Forward Current	I_{FRM}	350	mA
Forward Surge Current t_p=10ms	I_{FSM}	750	mA
Power Dissipation	P_d	350	mW
Thermal Resistance	$R_{\theta JA}$	357	℃/W
Junction Storage temperature	T_J,T_{STG}	-55-150	℃

ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	$V_{(BR)}$	30			V	I_R=100μA
Forward voltage	V_{F1}		0.29	0.33	V	I_F=2.0mA
	V_{F2}		0.40	0.45	V	I_F=15mA
	V_{F3}		0.74	1.00	V	I_F=100mA
Reverse current	I_R		90 25	500 100	nA μA	V_R=25V V_R=25V T_A=100℃
Diode Capacitanc	C_D		7.0		pF	V_R=1V,f=1MHz
Reverse Recovery Time	t_{rr}			5	ns	I_F=I_R=10mA I_{rr}=0.1XI_R,R_L=100Ω