

CMP SH-3/A/C/S

SWITCHING DIODE

VOLTAGE	30 Volt	CURRENT	0.1 Ampere
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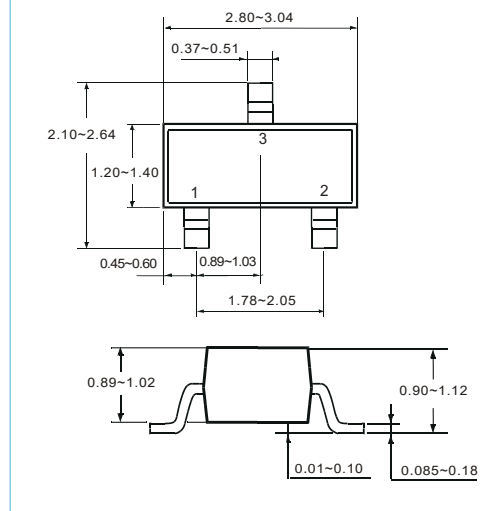
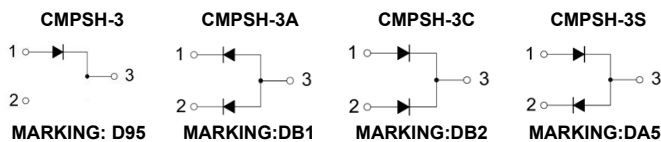
SOT-23 Unit:mm

FEATURES

- High Switching Speed
- Low Forward Voltage
- Lead free in compliance with EU RoHS

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS($T_A = 25^\circ\text{C}$ unless otherwise noted)

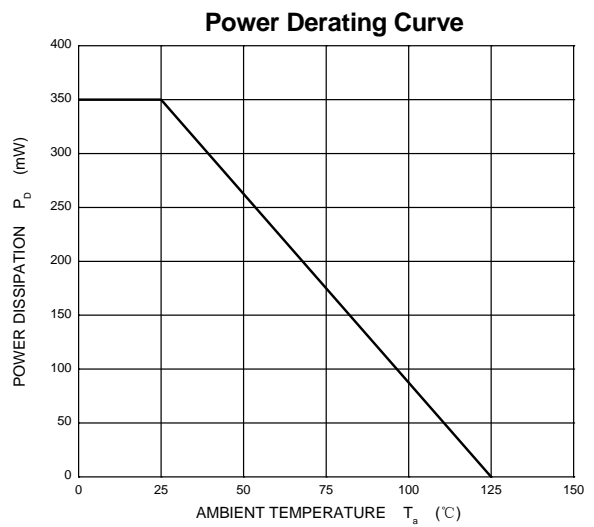
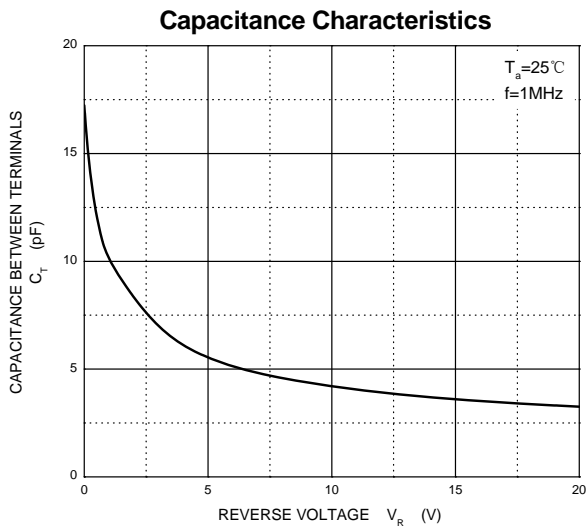
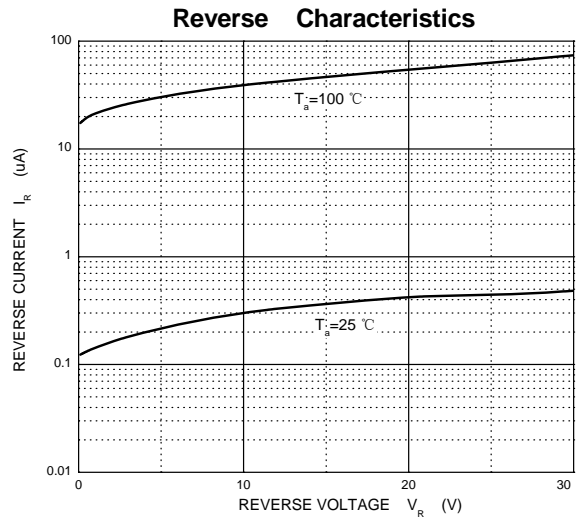
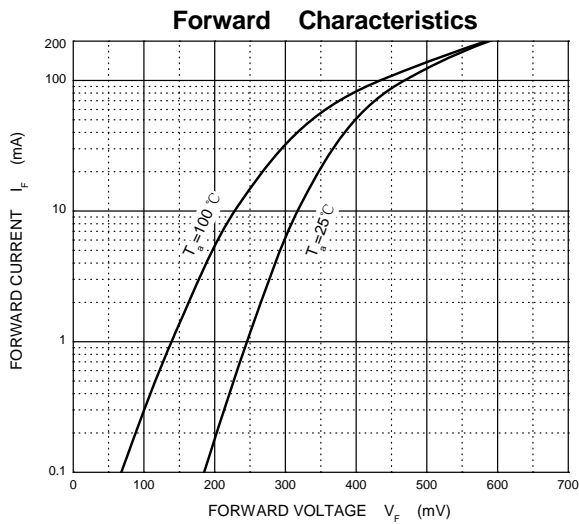
Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
Average Rectified Current	I_O	100	mA
Peak Repetitive Forward Current	I_{FRM}	350	mA
Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	0.75	A
Power Dissipation	P_D	350	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	357	$^\circ\text{C}/\text{W}$
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55~+150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS($T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Min	Typ	Max	Unit	Test conditions
Reverse voltage	$V_{(BR)}$	30			V	$I_R=100\mu\text{A}$
Forward voltage	V_F			0.33	V	$I_F=2\text{mA}$
				0.45	V	$I_F=15\text{mA}$
				1.00	V	$I_F=100\text{mA}$
Reverse current	I_R			0.5	μA	$V_R=25\text{V}$
Diode capacitance	C_D		4		pF	$V_R=1\text{V}, f=1\text{MHz}$
Reverse recovery time	t_{rr}		4		ns	$I_F=I_R=10\text{mA}, I_{RR}=0.1I_R, R_L=100\Omega$

CMP5H-3/A/C/S

Typical Characteristics

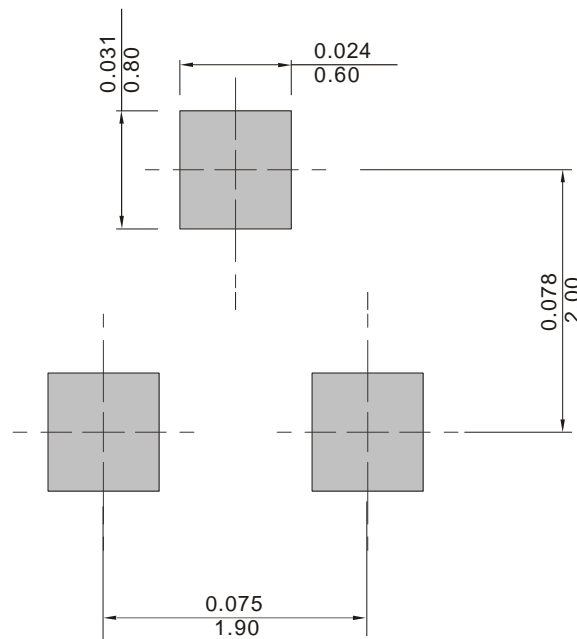


CMPSH-3/A/C/S

MOUNTING PAD LAYOUT

SOT-23

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
CMPSH-3/A/C/S	SOT-23	7 Inch	3000