



## Features

- Extremely Fast switching speed.
- Low forward voltage.
- Power dissipation  $P_d=350\text{mW}$
- Pb/RoHS Free

## Applications

- Fast switching application.

Dimensions in inches and (millimeters)



## Ordering Information

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

MAXIMUM RATING @  $T_a=25^\circ\text{C}$  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	$I_{FSM}$	750	mA
Power Dissipation	$P_d$	350	mW
Thermal Resistance	$R_{\theta JA}$	357	$^\circ\text{C}/\text{W}$
Junction Storage temperature	$T_J, T_{STG}$	-55-150	$^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	$V_{(BR)}$	30			V	$I_R=100\mu A$
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	500	nA	$V_R=25V$
			25	100	$\mu A$	$V_R=25V T_A=100^\circ C$
Diode Capacitance	$C_D$		7.0		pF	$V_R=1V, f=1MHz$
Reverse Recovery Time	$t_{rr}$			5	ns	$I_F=I_R=10mA$ $I_{rr}=0.1I_R, R_L=100\Omega$