

SMD Switching Diode

COMCHIP
SMD Diodes Specialist

CDSU4448(RoHs Device)

I_o = 125 mA

V_R = 80 Volts



Features

Fast Switching Speed

Designed for mounting on small surface.

Extremely thin/leadless package.

Mechanical data

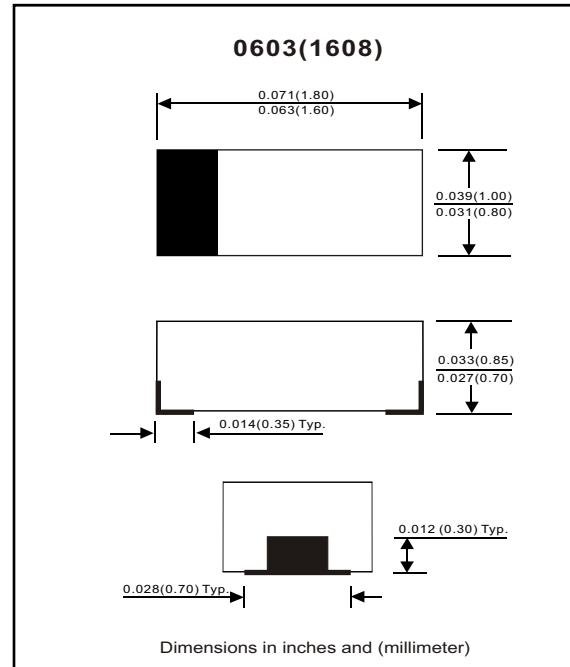
Case: 0603(1608) Standard package,
molded plastic.

Terminals: Gold plated, solderable per
MIL-STD-750, method 2026.

Polarity: Indicated by cathode band.

Mounting position: Any

Weight: 0.003 gram(approx.).



Maximum Rating (at TA=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Repetitive peak reverse voltage		V _{RRM}			100	V
Reverse voltage		V _R			80	V
Average forward rectified current		I _o			125	mA
Forward current,surge peak	t = 1 us t = 8.3ms	I _{FSM}			2 1	A
Storage temperature		T _{STG}	-40		+125	°C
Junction temperature		T _j			+125	°C

Electrical Characteristics (at TA=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I _F = 5 mA I _F = 100 mA	V _F	0.62		0.72 1	V
Reverse current	V _R = 20 V V _R = 80 V	I _R			25 100	nA
Capacitance between terminals	f = 1 MHz, and 0.5 VDC reverse voltage	C _T			9	pF
Reverse recovery time	I _F = I _R = 10mA, I _{rr} = 0.1 X I _R , R _L = 100ohm	T _{rr}			9	nS

RATING AND CHARACTERISTIC CURVES (CDSU4448)

Fig. 1 - Forward characteristics

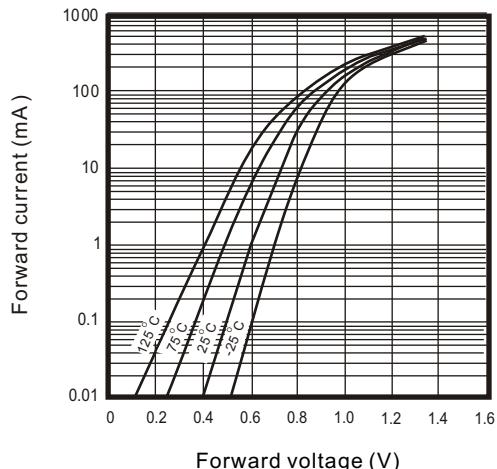


Fig. 2 - Reverse characteristics

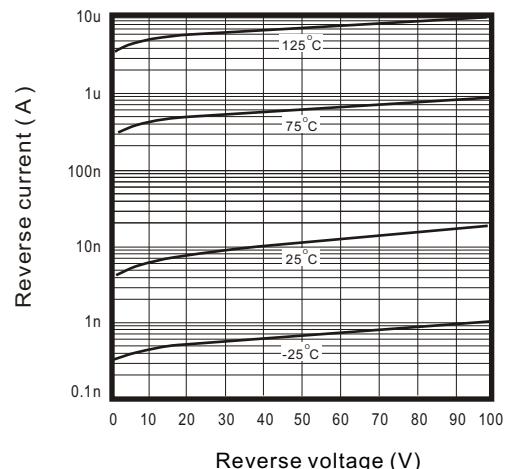


Fig. 3 - Capacitance between terminals characteristics

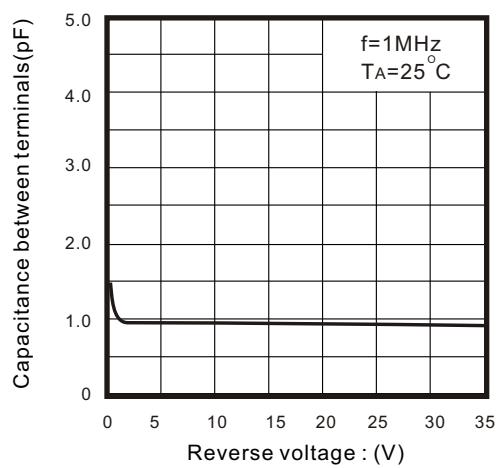


Fig. 4 - Current derating curve

