



CDSU4148

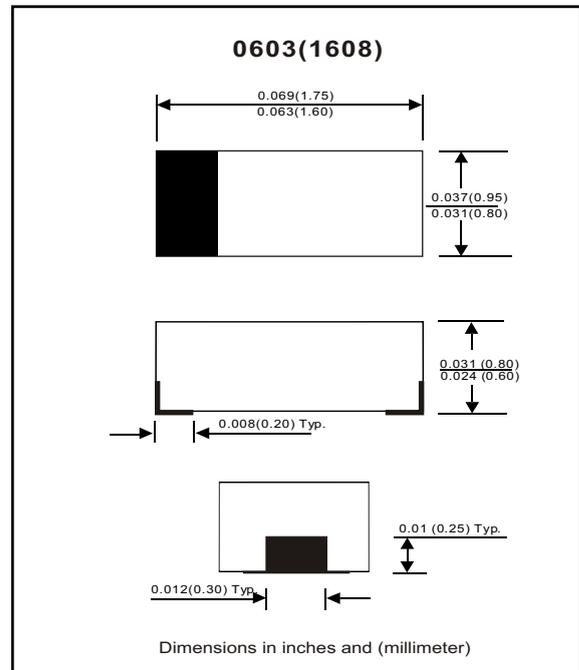
High Speed

Features

- Designed for mounting on small surface.
- High speed switching.
- High mounting capability, strong surge withstand, high reliability.

Mechanical data

- Case: 0603 (1608) standard package, molded plastic.
- Terminals: Solder plated, solderable per MIL-STD-750, method 2026.
- Polarity: Indicated by cathode band.
- Mounting position: Any.
- Weight: 0.003 gram. (approximately)



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			75	V
Average forward current		I _o			100	mA
Forward current , surge peak	T _p = 1 us T _p = 1s	I _{FSM}		2 0.5		A
Power Dissipation		P _D			150	mW
Storage temperature		T _{STG}	-40		+150	°C
Junction temperature		T _j	-40		+150	°

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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I _F = 50 mA DC	V _F			1.0	V
Reverse current	V _R = 20 V V _R = 75 V	I _R			25 2.5	nA uA
Capacitance between terminals	f = 1MHz, and 0 VDC reverse voltage	C _T			3	pF
Reverse recovery time	V _R = 6V, I _F = 10 mA, R _L = 50 ohms	T _{rr}			4	nS

RATING AND CHARACTERISTIC CURVES (CDSU4148)

Fig. 1 - Forward characteristics

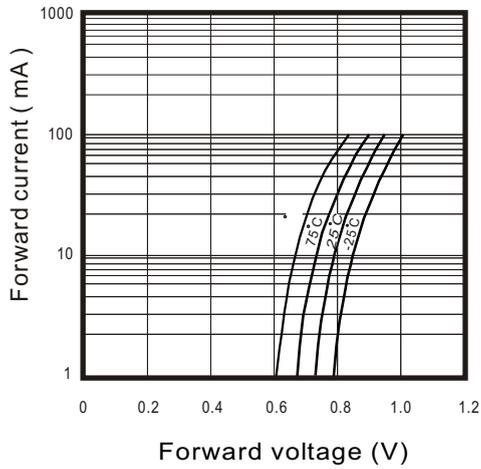


Fig. 2 - Reverse characteristics

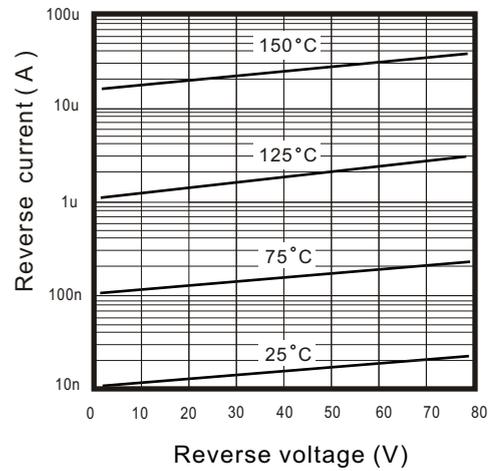


Fig. 3 - Capacitance between terminals characteristics

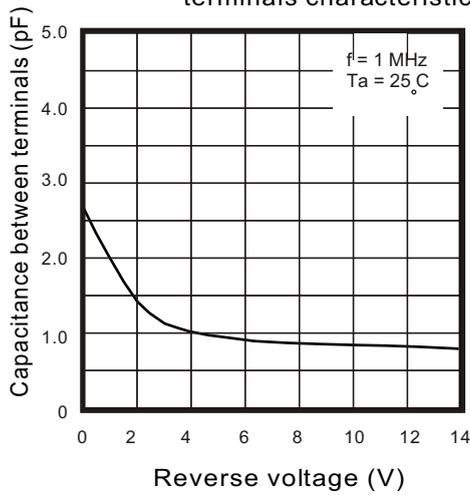


Fig. 4 - Current derating curve

