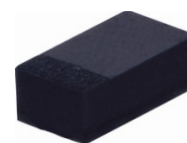


CDSUR4148(RoHs Device)

High Speed

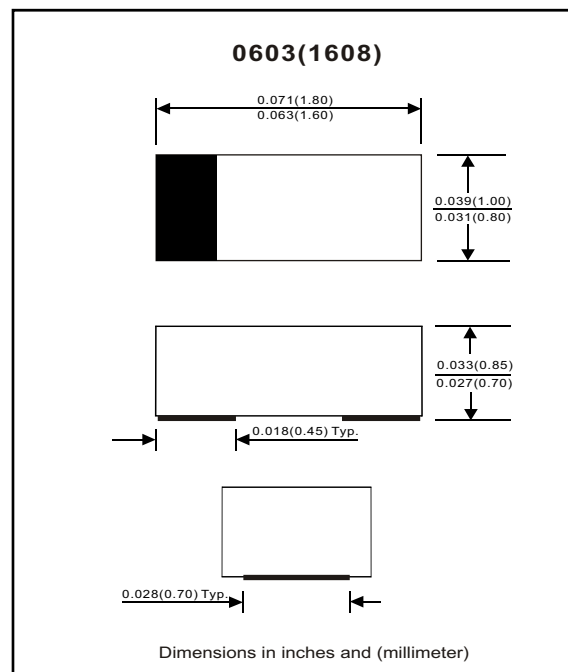


Features

- Designed for mounting on small surface.
- Extremely thin/leadless package.
- High mounting capability, strong surge withstand, high reliability.

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			75	V
Average forward current		I_O			150	mA
Forward current,surge peak	$T_P = 1\mu S$ $T_P = 1mS$	I_{FSM}		4 1		A
Repetitive peak forward current		I_{FRM}			300	mA
Power Dissipation		P_D			150	mW
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	$I_F = 50\text{ mA DC}$	V_F			1.0	V
Reverse current	$V_R = 20\text{ V}$ $V_R = 75\text{ V}$	I_R			25 2.5	nA uA
Capacitance between terminals	$f = 1\text{ MHz}$,and 0VDC reverse voltage	C_T			4	pF
Reverse recovery time	$I_F = I_R = 10\text{ mA}$, $R_L = 100\text{ ohms}$, $I_{rr} = 1\text{ mA}$	T_{rr}			4	nS

RATING AND CHARACTERISTIC CURVES (CDSUR4148)

Fig. 1 - Forward characteristics

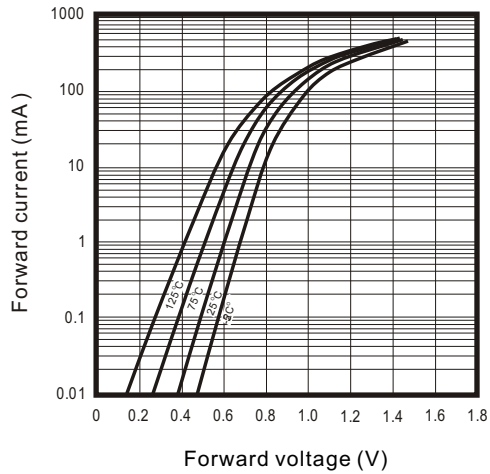


Fig. 2 - Reverse characteristics

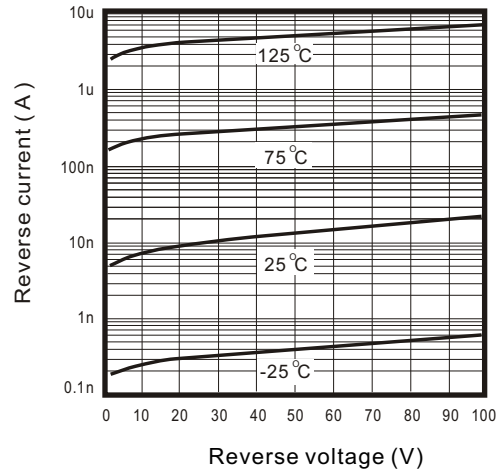


Fig. 3 - Capacitance between terminals characteristics

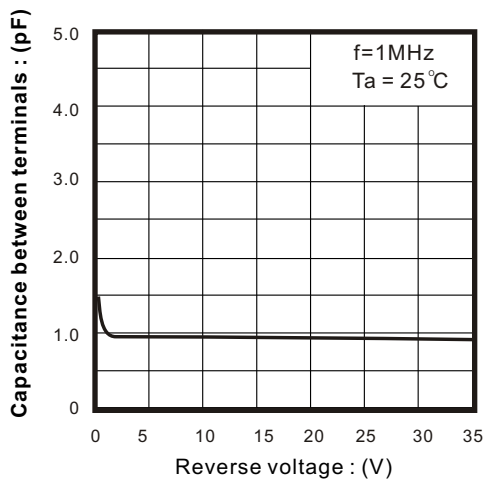


Fig. 4 - Current derating curve

