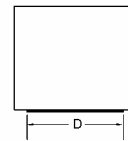
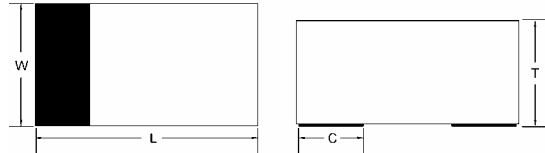


0603



Features

- ✧ Designed for mounting on small surface
- ✧ Extremely thin/leadless package
- ✧ Low capacitance
- ✧ Low forward voltage drop
- ✧ High temperature soldering:
260°C/10 seconds at terminals
- ✧ Chip version in 0603

Mechanical Data

- ✧ Case: 0603 Standard package, molded plastic
- ✧ Terminals: Gold plated, solderable per MIL-STD-750, method 2026.
- ✧ Polarity: Indicated by cathode band
- ✧ Mounting position: Any
- ✧ Package code: RZ
- ✧ Weight: 0.003 gram (approximately)

ITEM	0603
L	0.071(1.80)
	0.063(1.60)
W	0.039(1.00)
	0.031(0.80)
T	0.033(0.85)
	0.027(0.70)
C	0.018(0.45)
	Typical
D	0.028(0.70)
	Typical

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical characteristics

Rating at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Type Number	Symbol	0603	Units
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
DC Reverse Voltage	V_R	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Average Forward Current	I_O	200	mA
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	600	mA
Power Dissipation	P_d	150	mW
Forward Voltage IF=1.0mA IF=40mA	V_F	0.38 1.0	V
Reverse Leakage Current VR=30V	I_R	0.2	uA
Typical capacitance between terminals VR=0V, f =1.0MHz reverse voltage	C_J	5	pF
Reverse Recovery Time (IF=IR=10mA, Irr=0.1 x IR, RL=100Ω)	T_{rr}	5	nS
Junction Temperature	T_J	-65 to + 125	°C
Storage Temperature	T_{STG}	-65 to + 125	°C

RATINGS AND CHARACTERISTIC CURVES(TSS40U)

Fig. 1 - Forward characteristics

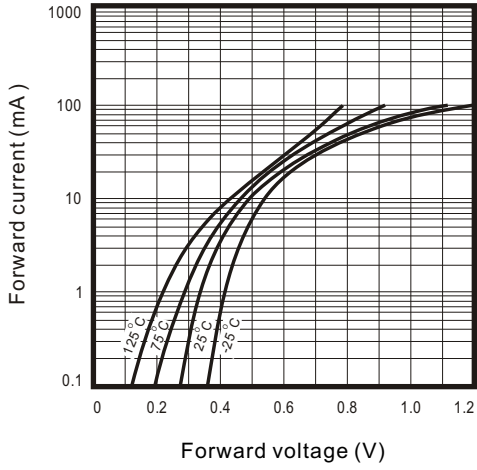


Fig. 2 - Reverse characteristics

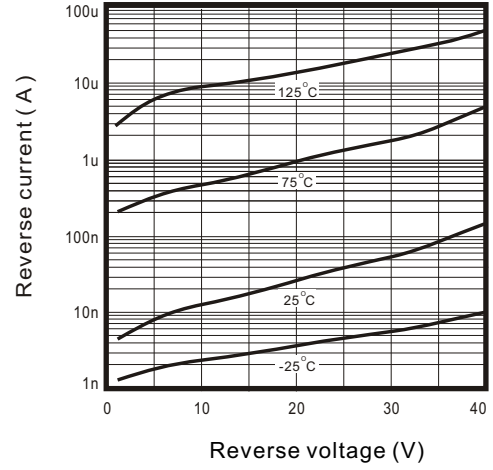


Fig.3 - Capacitance between terminals characteristics

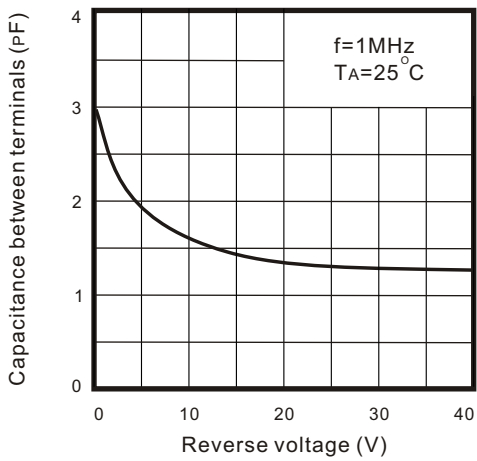


Fig.4 - Current derating curve

