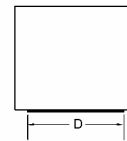
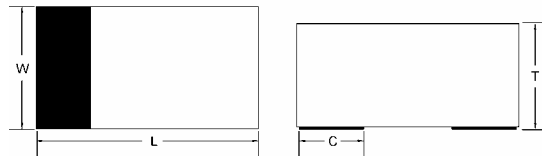
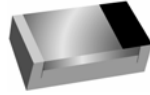


### 0603



### 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	$V_{RRM}$	45	V
DC Reverse Voltage	$V_R$	40	V
Average Forward Current	$I_O$	30	mA
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	$I_{FSM}$	500	mA
Power Dissipation	$P_d$	150	mW
Forward Voltage @ $I_F=1.0mA$	$V_F$	0.37	V
Reverse Leakage Current $V_R=30V$ $V_R=40V$	$I_R$	0.5	$\mu A$
		1.0	$\mu A$
Typical capacitance between terminals $V_R=1V$ , $f=1.0MHz$ reverse voltage	$C_J$	1.5	pF
Junction Temperature	$T_J$	-40 to + 125	°C
Storage Temperature	$T_{STG}$	-40 to + 125	°C

## RATINGS AND CHARACTERISTIC CURVES (TSS0340U)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

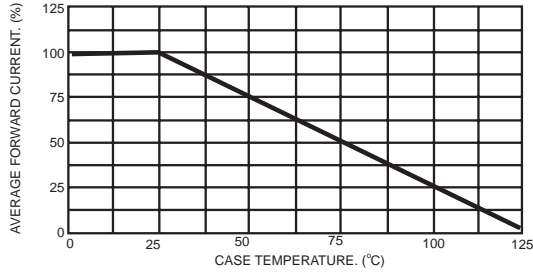


FIG.2- TYPICAL REVERSE CHARACTERISTICS

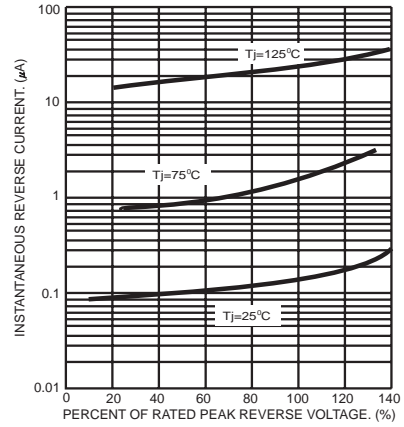


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

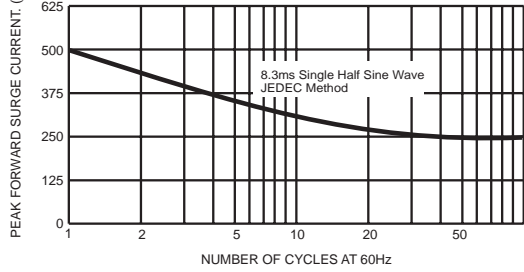


FIG.5- FORWARD CHARACTERISTICS CURVE

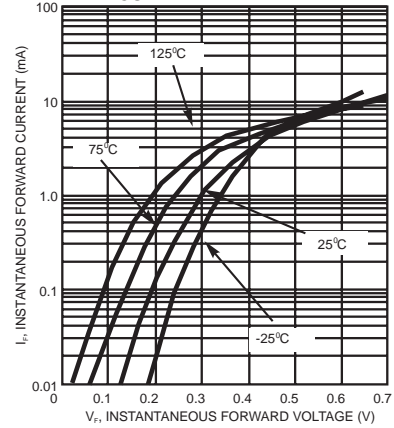


FIG.4- TYPICAL JUNCTION CAPACITANCE

