

Small Signal Diode

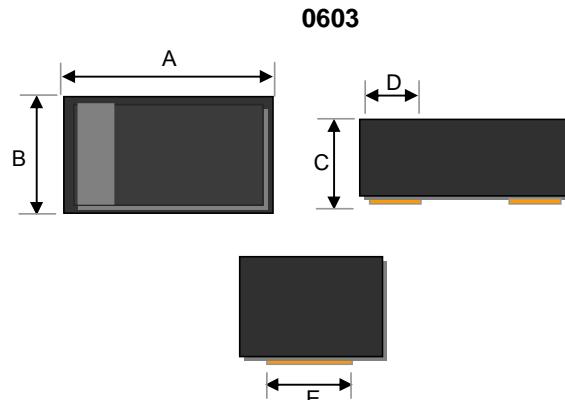


Features

- ◊ Designed for mounting on small surface.
- ◊ Extremely thin/leadless package
- ◊ High mounting capability, strong surge with stand, high reliability.
- ◊ Pb free version and RoHS compliant
- ◊ Green compound (Halogen free) with suffix "G" on packing code and prefix "G" on date code

Mechanical Data

- ◊ Case :0603 standard package, molded plastic
- ◊ Terminal: Gold plated, solderable per MIL-STD-750, method 2026 guaranteed
- ◊ High temperature soldering guaranteed: 260 °C/10s
- ◊ Polarity : Indicated by cathode band
- ◊ Weight : 0.003 gram (approximately)



Dimensions	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	1.60	1.80	0.063	0.071
B	0.80	1.00	0.031	0.039
C	0.70	0.85	0.027	0.033
D	Typ.	0.45	Typ.	0.018
E	Typ.	0.70	Typ.	0.028

Ordering Information

Part No.	Package	Packing
TS4448 RZ	0603	4Kpcs / 7" Reel

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Maximum Ratings

Type Number	Symbol	Value	Units
Power Dissipation	P _D	150	mW
Repetitive Peak Reverse Voltage	V _{RRM}	100	V
Repetitive Peak Forward Current	I _{FRM}	300	mA
Mean Forward Current	I _o	125	mA
Non-Repetitive Peak Forward Surge Current Pulse Width= 1 μsec	I _{FSM}	2.0	A
Pulse Width= 8.3 msec		1.0	
Thermal Resistance (Junction to Ambient) (Note 1)	R _{θJA}	666	°C/W
Junction and Storage Temperature Range	T _J , T _{STG}	-40 to + 125	°C

Electrical Characteristics

Type Number	Symbol	Min	Max	Units
Reverse Breakdown Voltage (Note 2)	V _(BR)	-	80	V
Forward Voltage I _F = 5mA	V _F	0.62	0.72	V
I _F = 100mA			1.00	
Reverse Leakage Current V _R = 20V	I _R	-	25	nA
V _R = 80V		-	100	
Junction Capacitance V _R =0.5, f=1.0MHz	C _J	-	9.0	pF
Reverse Recovery Time (Note3)	T _{rr}	-	9	ns

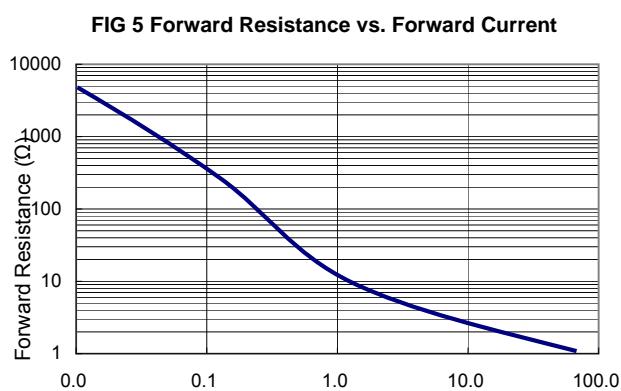
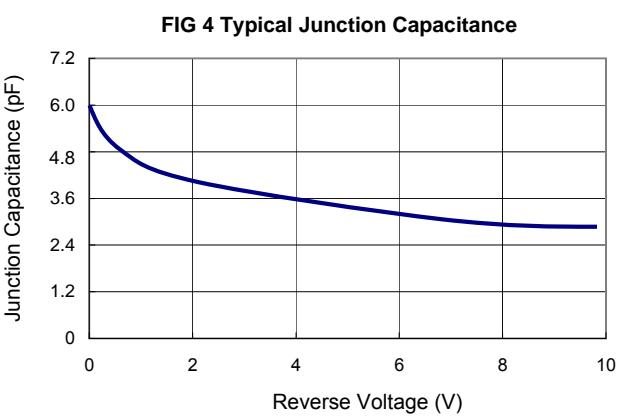
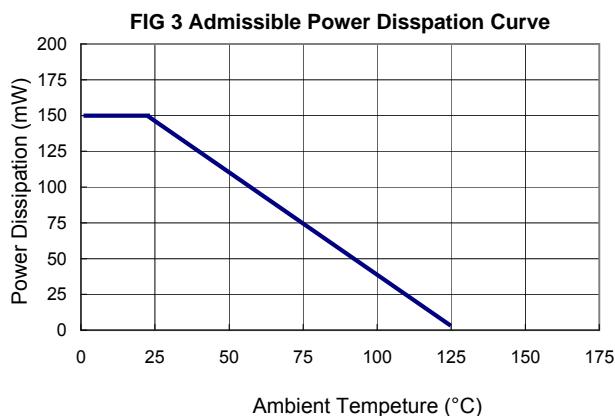
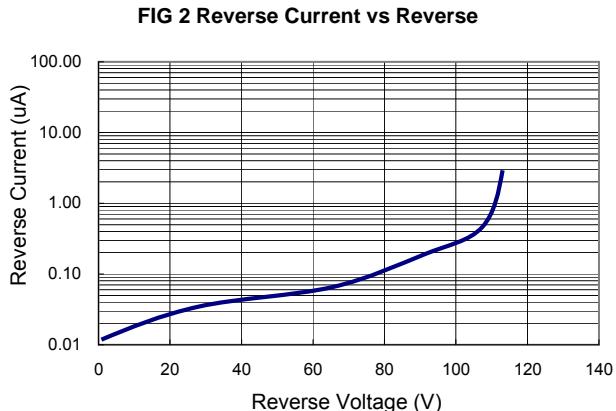
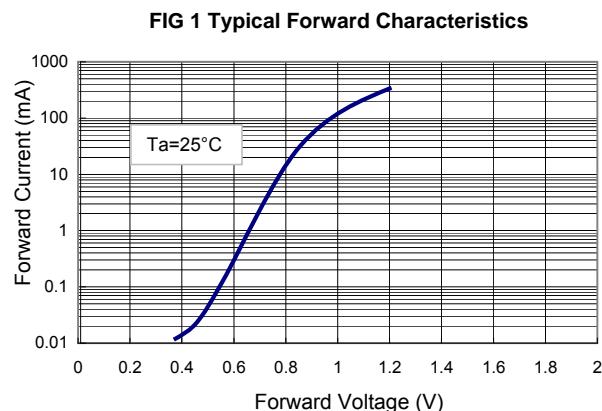
Notes:1. Valid provided that electrodes are kept at ambient temperature

Notes:2. Test Condition : I_R=100μA

Notes:3. Test Condition : I_F=I_R=10mA, R_L=100Ω, I_{RR}=1mA

Small Signal Diode

Rating and Shacteristic Curves



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