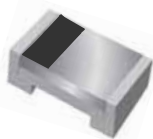


### Small Signal Diode

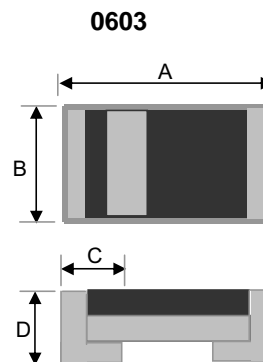


#### Features

- ◇ 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
- ◇ Halogen Free

#### 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 : 0.004gram (approximately)



Dimensions	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	1.45	1.65	0.057	0.065
B	0.70	0.90	0.028	0.035
C	0.25	0.45	0.010	0.018
D	0.55	0.75	0.022	0.030

#### Ordering Information

Part No.	Package	Packing
TS4148C RZG	0603	5K / 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	$P_D$	200	mW
Repetitive Peak Reverse Voltage	$V_{RRM}$	75	V
Repetitive Peak Forward Current	$I_{FRM}$	200	mA
Mean Forward Current	$I_o$	100	mA
Non-Repetitive Peak Forward Surge Current	$I_{FSM}$	0.4	A
at $t < 1s$ and $T_j = 25^\circ C$ at $t \leq 8.3ms$ and $T_j = 25^\circ C$		0.1	
Thermal Resistance (Junction to Ambient)	$R_{\theta JA}$	375	°C/W
Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150	°C

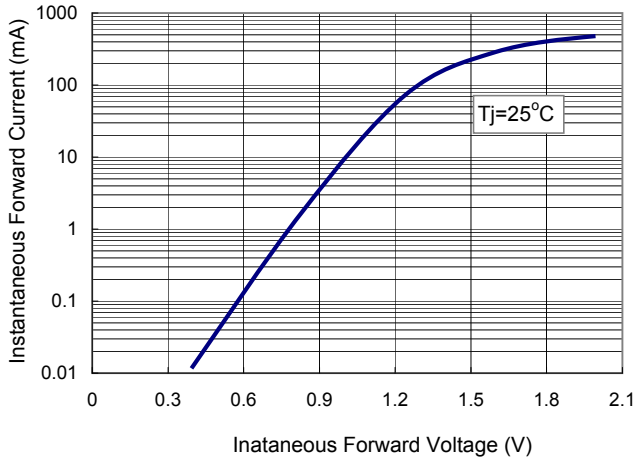
##### Electrical Characteristics

Type Number	Symbol	Min	Max	Units
Reverse Breakdown Voltage	$V_{(BR)}$	-	75	V
Forward Voltage	$V_F$	$I_F = 10mA$	1.00	V
		$I_F = 100mA$	1.25	V
Reverse Leakage Current	$I_R$	$V_R = 20V$	0.025	$\mu A$
		$V_R = 75V$	5.0	
Junction Capacitance	$C_J$	-	4	pF
Reverse Recovery Time	$T_{rr}$	-	4.0	ns

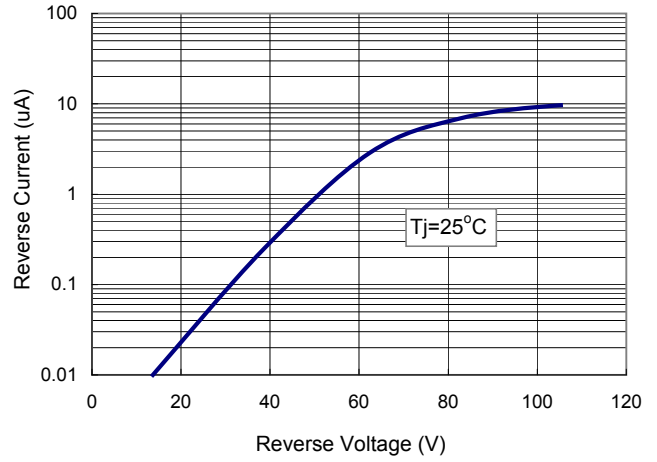
**Small Signal Diode**

**Rating and Sharacteristic Curves**

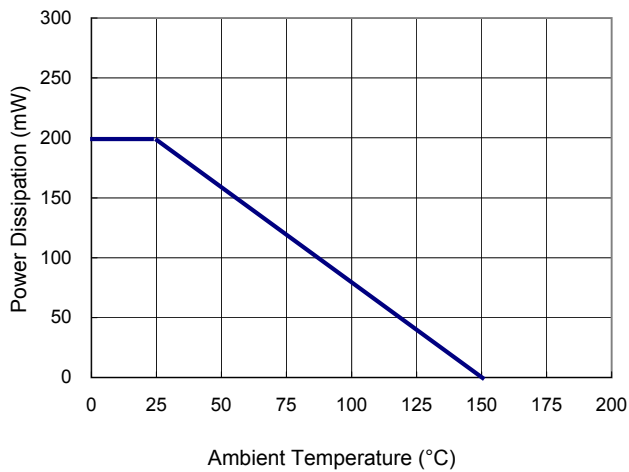
**FIG 1 Typical Forward Characteristics**



**FIG 2 Typical Reverse Characteristics**



**FIG 3 Admissible Power Dissipation Curve**



**FIG 4 Typical Junction Capacitance**

