

Small Signal Product

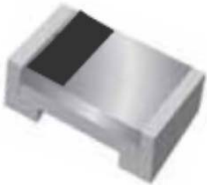
Features

- ◇ Designed for mounting on small surface
- ◇ Extremely thin/leadless package
- ◇ High mounting capability, strong surage 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 : 0.004 grams (approximately)

0603



Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Maximum Ratings

Parameter	Symbol	Value	Unit
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	$^{\circ}C/W$
Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150	$^{\circ}C$

Electrical Characteristics

Parameter	Symbol	Min	Max	Units
Reverse Breakdown Voltage $I_R = 100\mu A$	$V_{(BR)}$	-	75	V
Forward Voltage $I_F = 10mA$ $I_F = 100mA$	V_F	-	1.00	V
		-	1.25	
Reverse Leakage Current $V_R = 20V$ $V_R = 75V$	I_R	-	0.025	μA
		-	5.0	
Junction Capacitance $V_R = 0V, f = 1.0MHz$	C_J	-	4	pF
Reverse Recovery Time $I_F = I_R = 10mA, R_L = 100\Omega$	T_{rr}	-	4.0	ns

RATINGS AND CHARACTERISTICS CURVES

Fig. 1 Typical Forward Characteristics

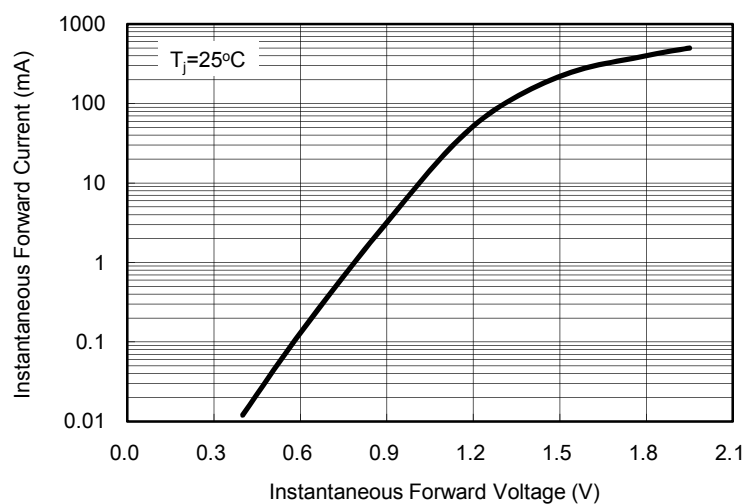


Fig. 2 Typical Reverse Characteristics

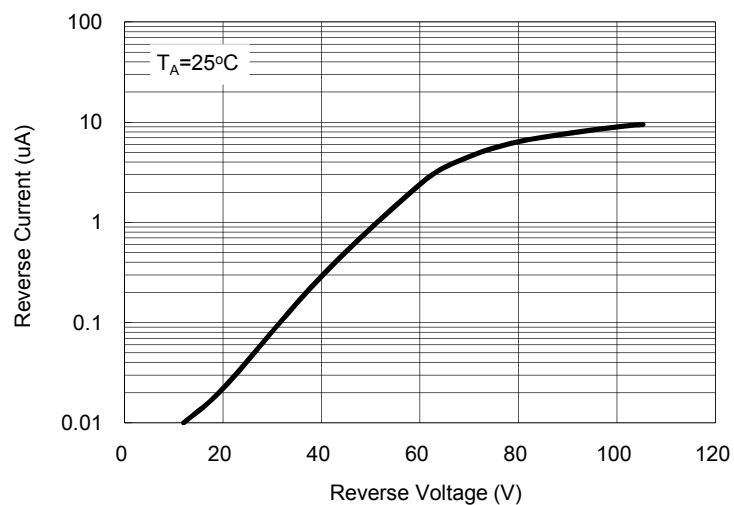


Fig. 3 Admissible Power Dissipation Curve

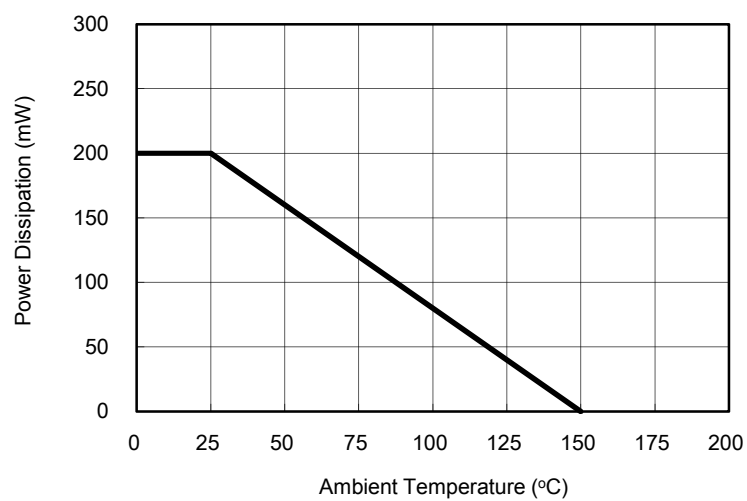
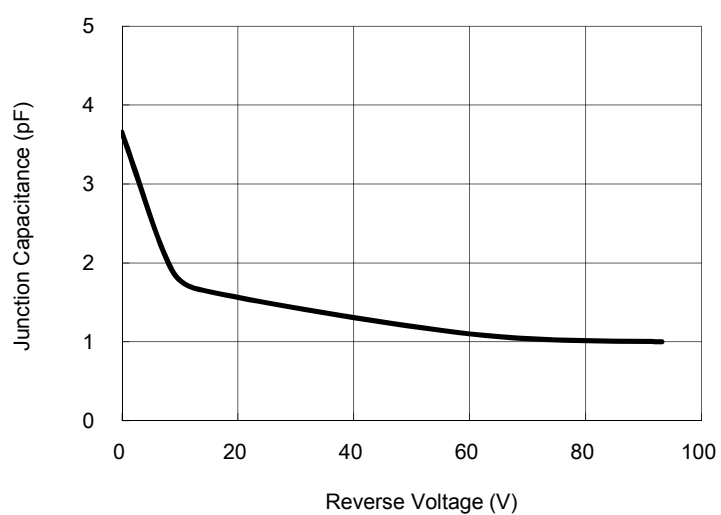


Fig. 4 Typical Junction Capacitance

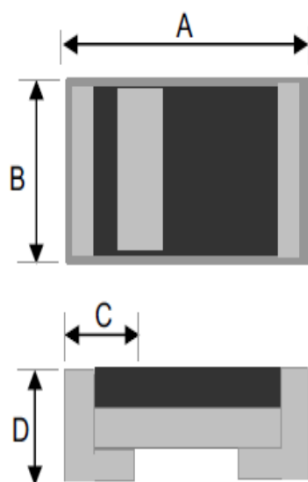


Ordering information (Detail, example)

Part No.	Package	Packing	Packing code (Green)	Manufacture code
TS4148C RZG	0603	5K / 7" Reel	RZG	(Note)
		10K / 13" Reel	RCG	
TS4148C RZG	0603	5K / 7" Reel	RZG	
TS4148C RZG	0603	5K / 7" Reel	RZG	C0

Note : Manufacture special control, if empty means no special control requirement.

Dimensions



DIM.	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