

200mW High Speed SMD Switching Diode

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 (Ceramics)
- High temperature soldering guaranteed: 260°C/10s
- Polarity: Indicated by white cathode band
- Weight: 4 mg (approximately)











MAXIMUM RATINGS AND ELECT	RICAL CHARACTERS	TICS (T _A =25°C unless	otherwise noted)		
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		Io	100	mA	
Non-repetitive peak forward	at t<1s	1	0.4	А	
surge current	at t≦8.3ms	I _{FSM}	0.8		
Thermal resistance (Junction to Ambient)		$R_{ heta JA}$	375	°C/W	
Junction and storage temperature range		T _J , T _{STG}	-55 to +150	°C	

PARAN	SYMBOL	MIN	MAX	UNIT		
Reverse breakdown voltage	I _R =100μA	$V_{(BR)}$	-	75	V	
Famous coltage	I _F =10mA	\/	-	1.00	V	
Forward voltage	I _F =100mA	V_{F}	-	1.25	7 V	
Poverse leakage current	V _R =20V		-	0.025		
Reverse leakage current	V _R =75V	I _R	-	5.0	μΑ	
Junction capacitance	V _R =0V, f=1.0MHz	C _J	-	4	pF	
Reverse recovery time	$I_F = I_R = 10 \text{mA}, R_L = 100 \Omega$	t _{rr}	-	4	ns	



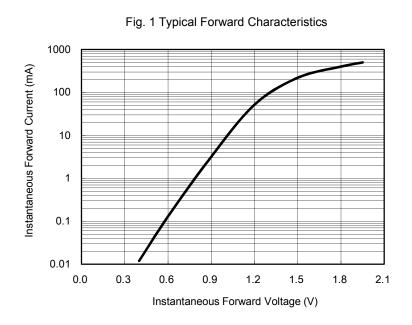
ORDERING INFORMATION					
PART NO.	PART NO.	PACKING CODE	PACKING CODE	PACKAGE	PACKING
	SUFFIX	PACKING CODE	SUFFIX		
TS4148C -xx (Note 1)	-xx	RZ	G	0603	5K / 7" Reel
	(Note 1)	RC	g	(Ceramics)	10K / 13" Reel

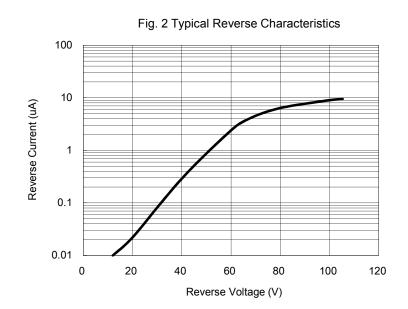
Note 1: Part No. Suffix "-xx " would be used for special requirement

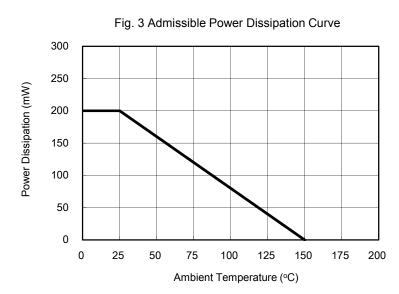
EXAMPLE					
PREFERRED PART NO.	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
TS4148C RZG	TS4148C		RZ	G	Multiple manufacture source Green compound
TS4148C-C0 RZG	TS4148C	-C0	RZ	G	Defined manufacture source Green compound

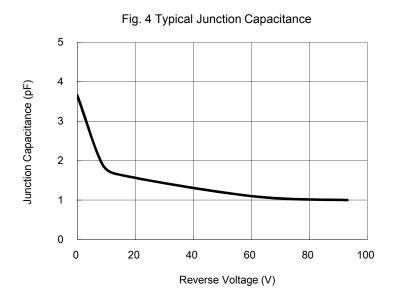
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)





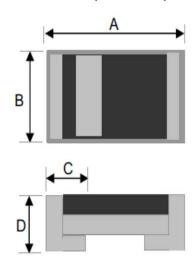






DIMENSIONS

0603 (Ceramics)



DIM.	Unit(mm)		Unit(inch)		
	Min	Max	Min	Max	
Α	1.45	1.65	0.057	0.065	
В	0.70	0.90	0.028	0.035	
С	0.25	0.45	0.010	0.018	
D	0.55	0.75	0.022	0.030	





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