

IN17027 【 Revision of BZD27C Series Datasheet 】 Comparison report

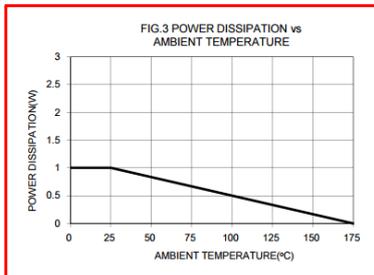
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Approved by Henry
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Revision for A

Subject: BZD27C SERIES

old datasheet version

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Forward voltage @ I _F =0.2A	V _F	1.2	Volts
Power dissipation at T _J =80°C	P _{tot}	2.3	Watts
T _A =25°C (Note 1)		1.0	
Non-repetitive peak pulse power dissipation 100µs square pulse	P _{ZSM}	300	Watts
Non-repetitive peak pulse power dissipation 10/1000µs waveform (BZD27C6V8P to BZD27C100P)	P _{RSM}	150	Watts
Non-repetitive peak pulse power dissipation 10/1000µs waveform (BZD27C110P to BZD27C220P)	P _{RSM}	100	Watts
Thermal resistance junction to ambient (Note 1)	R _{θJA}	180	°C/W
Thermal resistance junction to lead	R _{θJL}	30	°C/W
Operating and storage temperature range	T _J , T _{STG}	-55 to +175	°C

Note 1: Mounted on Cu-Pad size 5mm x 5mm



new datasheet version

ABSOLUTE MAXIMUM RATINGS (T _A = 25°C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Forward voltage @ I _F =0.2A	V _F	1.2	Volts
Power dissipation at T _J =73°C	P _{tot}	2.3	Watts
T _A =25°C (Note 1)		1.0	
Non-repetitive peak pulse power dissipation 100µs square pulse (Note 2)	P _{ZSM}	300	Watts
Non-repetitive peak pulse power dissipation 10/1000µs waveform (BZD27C6V8P to BZD27C100P)	P _{RSM}	150	Watts
Non-repetitive peak pulse power dissipation 10/1000µs waveform (BZD27C110P to BZD27C220P)	P _{RSM}	100	Watts
Operating and storage temperature range	T _J , T _{STG}	-55 to +175	°C

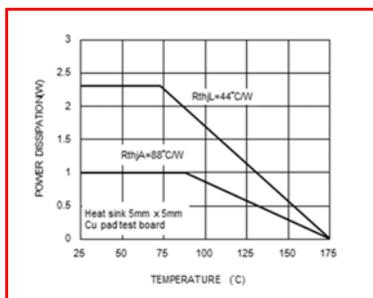
Notes:

1. Mounted on Cu-Pad size 5mm x 5mm
2. T_J=25°C prior to surge

THERMAL PERFORMANCE			
PARAMETER	SYMBOL	LIMIT	UNIT
Junction-to-lead thermal resistance	R _{θJL}	44	°C/W
Junction-to-ambient thermal resistance	R _{θJA}	88	°C/W
Junction-to-case thermal resistance	R _{θJC}	48	°C/W

Thermal Performance Note: Units mounted on recommended PCB (5mm x 5mm Cu pad test board)

Fig.3 POWER DISSIPATION v.s TEMPERATURE change to below



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