

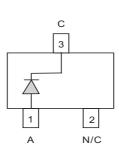
SCHOTTKY BARRIER DIODE

FEATURES

- Low VF
- High current capability
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

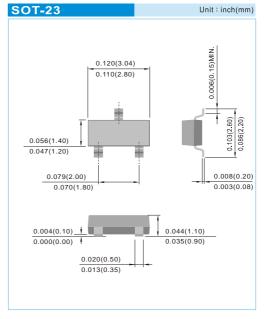
MECHANICAL DATA

- Case : SOT-23, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0003 ounces, 0.0084 grams
- Marking : 750



ABSOLUTE MAXIMUM RATINGS

		1	
Parameter	Symbol	Limit	Unit
Collector reverse voltage	Vr	40	V
RMS reverse voltage	Vr(rms)	28	V
Forward current (continuous)	١F	750	mA
Forward voltage@I F=750mA	Vf	490	mV
Average peak forward current; DC=50%	I FAV	1500	mA
Non repetitive forward current t <u><</u> 100µs t <u><</u> 8.3ms	I FSM	12 5.5	А
Power dissipation@TA=25°C	Ртот	350	mW
Typical thermal resistance, junction to ambient air	Roja	286	°C/W
Storage temperature range	Тѕтс	-55 to + 150	°C
Junction temperature	TJ	125	°C



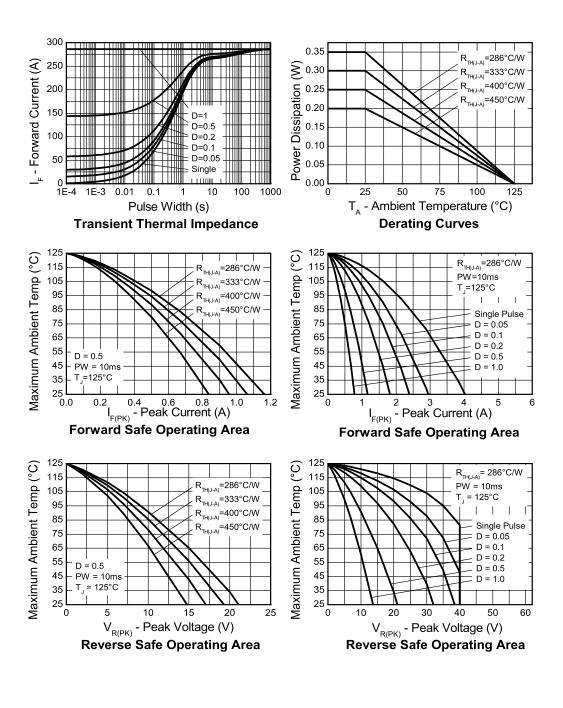


ELECTRICAL CHARACTERISTICS (@Ta=25°C unless otherwise stated)

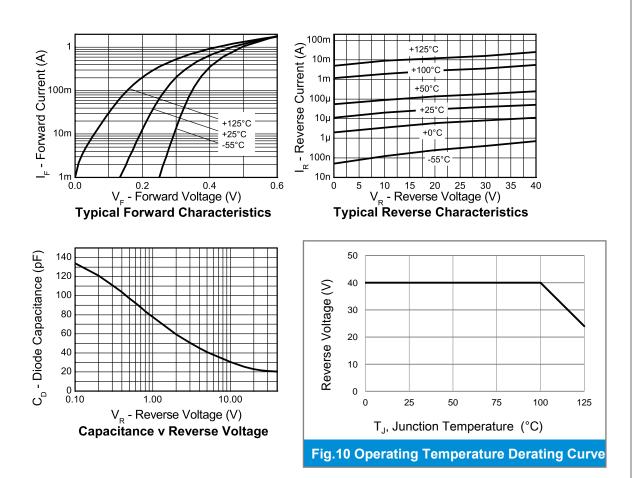
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse breakdown voltage	V(BR)R	I κ=300μΑ	40	60	-	V
		I⊧=50mA	-	250	280	
		I F=100mA	-	270	310	
		I F=250mA	-	310	350	
Forward voltage(Note 1)	VF	I ⊧=500mA	-	350	420	mV
		I F=750mA	-	390	490	
		I F=1000mA	-	420	540	
		I F=1500mA	-	490	650	
Reverse current	l R	VR=30V	-	50	100	μΑ
Off state junction capacitance	CJ	VR=25V,f=1.0MHz	-	18	-	pF

Note : 1.Measured under pulsed conditions. Pulse width = 300 μ duty cycle < 2%







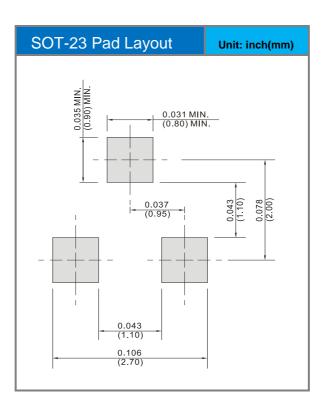




Product and Packing Information

Part No.	Package Type	Packing Type	Marking	
BAT750	SOT-23	3K pcs / 7" reel	750	
BAT750	SOT-23	12K pcs / 13" reel	750	

Mounting Pad Layout





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