



BAT750

SCHOTTKY BARRIER DIODE

FEATURES

- Low V_F
- High current capability
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

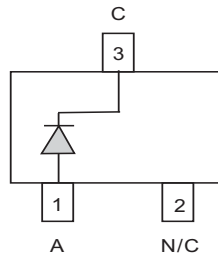
MECHANICAL DATA

Case : SOT-23, Plastic

Terminals : Solderable per MIL-STD-750, Method 2026

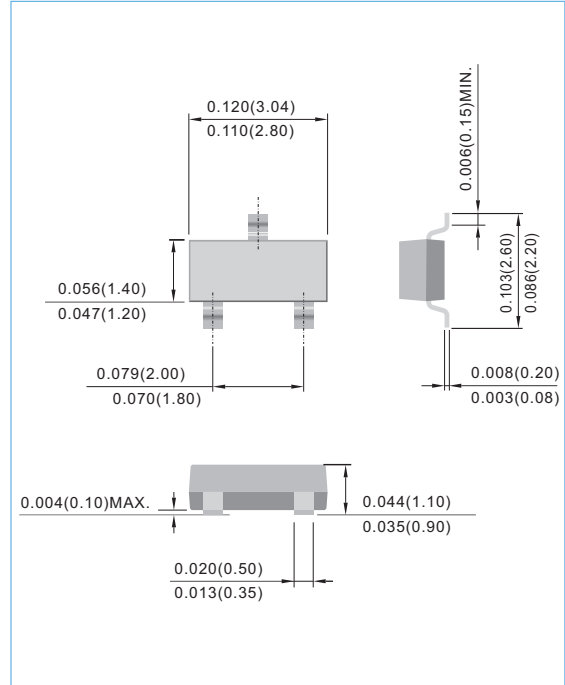
Weight: 0.0003 ounces, 0.0084 grams

Marking : 750



SOT-23

Unit : inch(mm)



ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Limit	Unit
Collector reverse voltage	V_R	40	V
RMS reverse voltage	$V_{R(RMS)}$	28	V
Forward current (continuous)	I_F	750	mA
Forward voltage@ $I_F=750mA$	V_F	490	mV
Average peak forward current; DC=50%	I_{FAV}	1500	mA
Non repetitive forward current $t \leq 100\mu s$ $t \leq 8.3ms$	I_{FSM}	12 5.5	A
Power dissipation@ $T_A=25^\circ C$	P_{TOT}	350	mW
Typical thermal resistance, junction to ambient air	$R_{\theta JA}$	286	$^\circ C/W$
Storage temperature range	T_{STG}	-55 to + 150	$^\circ C$
Junction temperature	T_J	125	$^\circ C$



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

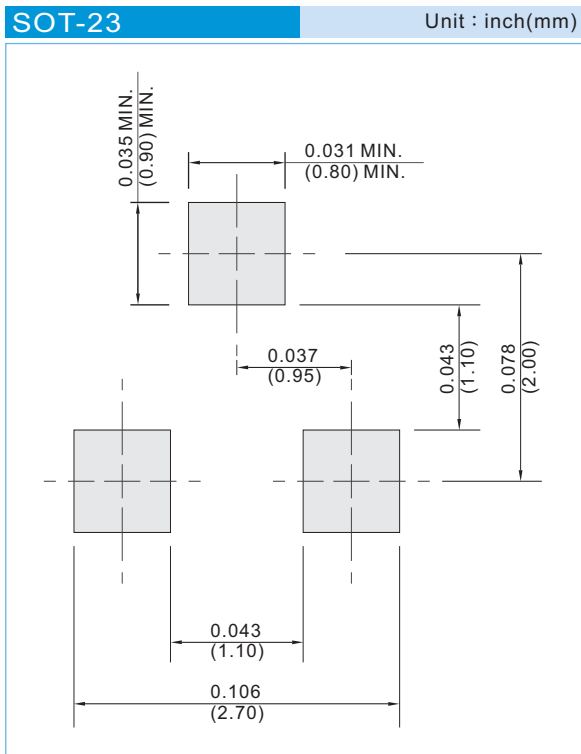
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse breakdown voltage	V _{(BR)R}	I _R =300μA	40	60	-	V
Forward voltage(Note 1)	V _F	I _F =50mA	-	250	280	mV
		I _F =100mA	-	270	310	
		I _F =250mA	-	310	350	
		I _F =500mA	-	350	420	
		I _F =750mA	-	390	490	
		I _F =1000mA	-	420	540	
Reverse current	I _R	V _R =30V	-	50	100	μA
Off state junction capacitance	C _J	V _R =25V,f=1.0MHz	-	18	-	pF

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



BAT750

MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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