



### **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)

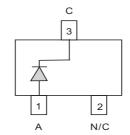
### **MECHANICAL DATA**

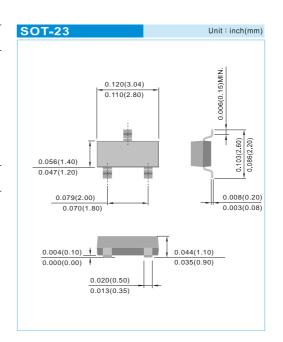
• Case : SOT-23, Plastic

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

• Approx. Weight: 0.0003 ounces, 0.0084 grams

• Marking: 750





### **ABSOLUTE MAXIMUM RATINGS**

Parameter	Symbol	Limit	Unit
Collector reverse voltage	VR	40	V
RMS reverse voltage	VR(RMS)	28	V
Forward current (continuous)	lf	750	mA
Forward voltage@I r=750mA	VF	490	mV
Average peak forward current; DC=50%	l fav	1500	mA
Non repetitive forward current t≤100µs t≤8.3ms	IFSM	12 5.5	А
Power dissipation@Ta=25°C	Ртот	350	mW
Typical thermal resistance, junction to ambient air	Rөja	286	°C/W
Storage temperature range	Тѕтс	-55 to + 150	°C
Junction temperature	TJ	125	°C





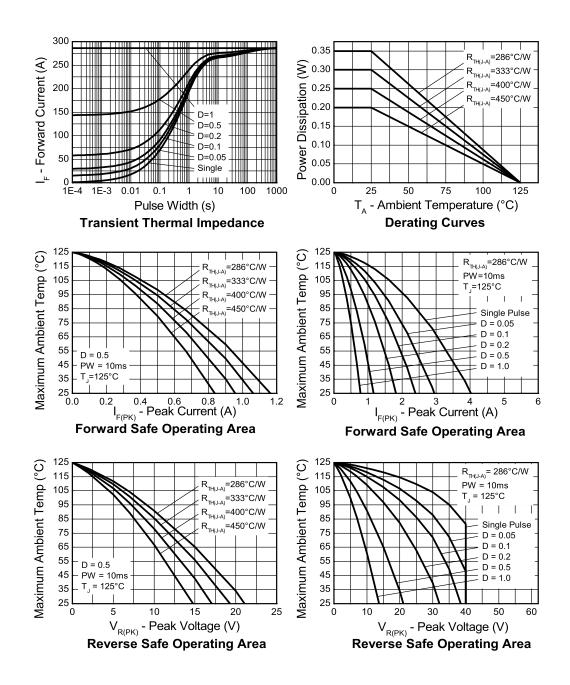
### ELECTRICAL CHARACTERISTICS (@Ta=25°C unless otherwise stated)

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

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

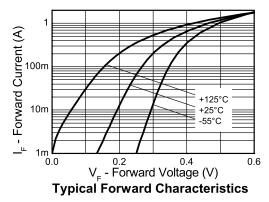


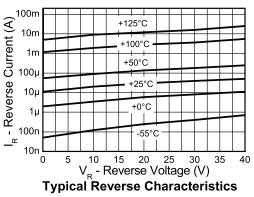


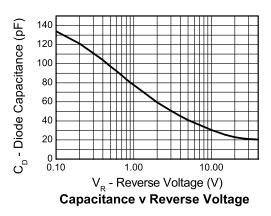












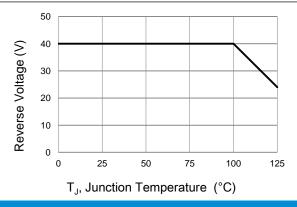
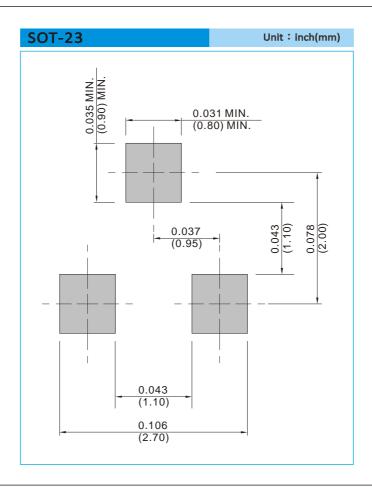


Fig.% \$Operating Temperature Derating Curve





### **MOUNTING PAD LAYOUT**



### ORDER INFORMATION

• Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

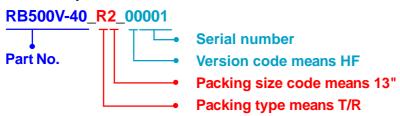




### Part No\_packing code\_Version

BAT750\_R1\_00001 BAT750\_R2\_00001

## For example :



Packing Code XX			Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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