

SOT-23 Plastic SMD

BAR43

Schottky Diode

Applications

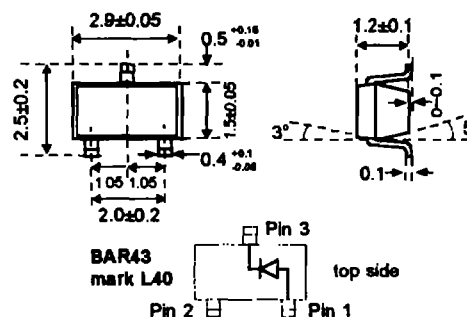
Excellent MOS protection. Efficient portable system battery isolator. Used in small fast motor applications such as CD ROMs and hard disk drives.

Features

- Small size
- High quality
- Fast switching
- Low forward drop
- Available in DO-35 and MELF glass packages

Parts are packaged in 8 mm tape and shipped on 3000 piece 7 inch reels.

SOT-23 PACKAGE OUTLINE (all dimensions in millimeters)



Maximum Ratings		Symbol	Value		Unit	
Peak Inverse Voltage @ 100 μA (pulsed)300μS @ 2%		PIV	30 (Min.)		Volts	
Average Rectified Current @ T _{Amb}		I _{Avg}	200 ¹⁾		mAmps	
Repetitive Peak Forward Current @ T _{Amb}		I _{FRP}	500 ¹⁾		mAmps	
Peak Surge Current (t _{peak} = 10 msec.)		I _{PSM}	4.0 ¹⁾		Amps	
Thermal Resistance Junction to Ambient Air		R _{thA}	300 ¹⁾		°C/Watt	
Junction Temperature		T _J	125		°C	
Storage Temperature Range		T _{St}	-65 to +125		°C	
Electrical Characteristics @ 25 °C		Symbol	Min.	Typ.	Max.	Unit
Forward Voltage Drop @ I _F = 2.0 mA		V _F ³⁾	0.26		0.33	Volt
Forward Voltage Drop @ I _F = 15 mA		V _F ³⁾			0.45	Volt
Forward Voltage Drop @ I _F = 200 mA		V _F ³⁾			1.0	Volt
Reverse Leakage Current @ V _R = 25 V		I _R ³⁾			0.5	μA
Reverse Leakage Current @ V _R = 25 V		I _R ³⁾ @ 100°C			100	μA
Capacitance @ V _R = 1 V, f = 1mHz		C _{tot}		7.0		pF
Reverse Recovery Time (note 2)		t _π ²⁾			5.0	nSecs

Note 1): Device on fiber glass substrate. 1.5 mm thick with 0.3mm wide copper leads.

Note 2): $I_F = I_R = 10$ mA, $R_L = 100$ Ohms, Recover to 1mA.

Note 3): Pulse tested at $t_p = 300\mu$ Secs at a 2% duty cycle.

Available as a Mini-MELF (LL43) and in a glass DO-35 version (BAT43).



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