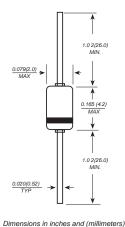
BAT85

SMALL SIGNAL SCHOTTKY DIODES

Reverse Voltage - 30 Volts Ptot- 200 mW

DO-35(GLASS)



FEATURES

- Fast switching for high efficiency
- Low reverse leakage
- High forward surge current capability
 High temperature soldering guaranteed
- 250°C/10 seconds,0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: DO-35 glass case Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight:0.005 ounce, 0.14 grams

ABSOLUTE RATINGS

	SYMBOLS	Value	UNITS
Repetitive peak reverse voltage	Vrrm	30	V
Forward continuous current TA=25 C	lF	200*	mA
Repetitive peak forward current at tp<1s, d<0.5, T _A =25°C	Ігм	300*	mA
Surge forward current at tp<10ms, TA=25°C	IFSM	600*	mA
Power dissipation at TA=65°C	Ptot	200*	mW
Junction temperature	TJ	125*	°C
Ambient operating temperature range	TA	-65 to +125	°C
Storage temperature range	Тѕтс	-65 to +125	°C

*Valid provided that that leads at a distance of 4mm from case are kept at ambient temperature

ELECTRICAL CHARACTERISTICS

	SYMBOLS	Min.	Тур.	Max.	UNITS
Reverse breakdown voltage tested with 100mA pulse	es V _{(BR)R}	30			V
Forward voltage					
Pulse test tp<300ms, d<2%					
at I⊧=0.1mA			0.50	0.24	
at I⊧=1mA	VF			0.32	
at I⊧=10mA	VF			0.4	V
at I⊧=30mA					
at I⊧=100mA				0.8	
Leakage current VR=25V	lr			2	μA
Junction capacitance at VR=1V, f=1MHz	CJ			10	pF
Reverse recovery time IF=10mA,IR=10mA,Irr=1mA	trr			5	ns
Thermal resistance junction to ambient	Rqja			300*	K/W

*Valid provided that leads at a distance of 4mm from case are kept at ambient temperature

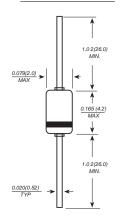


BAT86

SMALL SIGNAL SCHOTTKY DIODES

Reverse Voltage - 50 Volts Ptot- 200 mW

DO-35(GLASS)



FEATURES

- Fast switching for high efficiency
- Low reverse leakage
- High forward surge current capability
 High temperature soldering guaranteed
 250°C(10 accords 0.375"(0.5mm) load to
 - $250^\circ\text{C}/10$ seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: DO-35 glass case Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight:0.005 ounce, 0.14 grams

Dimensions in inches and (millimeters)

ABSOLUTE RATINGS

	SYMBOLS	Value	UNITS
Continuous reverse voltage	Vrrm	50	V
Forward continuous current at TA=25°C	lF	200*	mA
Repetitive peak forward current at tp<1s, d<0.5, T _A =25°C	IFSM	300*	mA
Power dissipation at T _A =65℃	Ptot	200*	mW
Junction temperature	TJ	125	°C
Ambient operating temperature range	Ta	-65 to +125	°C
Storage temperature range	Тѕтс	-65 to +125	°C

*Valid provided that that leads at a distance of 4mm from case are kept at ambient temperature

ELECTRICAL CHARACTERISTICS

	SYMBOLS	Min.	Тур.	Max.	UNITS
Reverse breakdown voltage tested with 100mA pulses	S V(BR)R	50			V
Forward voltage					
Pulse test tp<300ms, d<2%					
at I⊧=0.1mA			0.200	0.300	
at I⊧=1mA	VF		0.272	0.380	V
at I⊧=10mA			0.365	0.450	
at I⊧=30mA			0.460	0.600	
at I⊧=100mA			0.700	0.900	
Leakage current VR=25V	lr		0.2	0.5	mA
Junction capacitance at VR=1V, f=1MHz	CJ			8	pF
Reverse recovery time Ir=10mA,Ir=10mA,Irr=1mA	trr			5	ns
Thermal resistance junction to ambient	Rqja			300*	K/mW

*Valid provided that leads at a distance of 4mm from case are kept at ambient temperature

