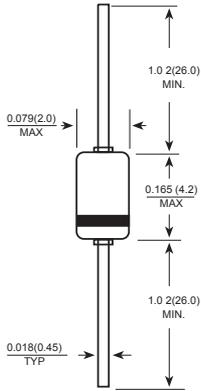


BAT85

SMALL SIGNAL SCHOTTKY DIODES
Reverse Voltage - 30 Volts P_{tot}- 200 mW

DO-35(GLASS)



Dimensions in inches and (millimeters)

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	V _{RRM}	30	V
Forward continuous current T _A =25°C	I _F	200*	mA
Repetitive peak forward current at tp<1s, δ<0.5, T _A =25°C	I _{FM}	300*	mA
Surge forward current at tp<10ms, T _A =25°C	I _{FSM}	600*	mA
Power dissipation at T _A =65°C	P _{tot}	200*	mW
Junction temperature	T _J	125*	°C
Ambient operating temperature range	T _A	-65 to +125	°C
Storage temperature range	T _{STG}	-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.	Typ.	Max.	UNITS
Reverse breakdown voltage tested with 100μA pulses	V _{(BR)R}	30			V
Forward voltage					
Pulse test tp<300μs, δ<2%					
at I _F =0.1mA				0.24	
at I _F =1mA	V _F		0.50	0.32	V
at I _F =10mA				0.4	
at I _F =30mA					
at I _F =100mA				0.8	
Leakage current V _R =25V	I _R			2	μA
Junction capacitance at V _R =1V, f=1MHz	C _J			10	pF
Reverse recovery time I _F =10mA, I _R =10mA, I _{RR} =1mA	t _{rr}			5	ns
Thermal resistance junction to ambient	R _{θJA}			300*	K/W

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