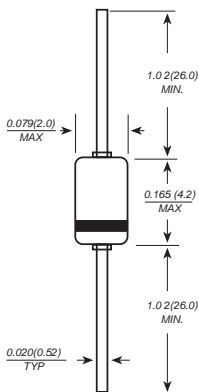


BAT86

SMALL SIGNAL SCHOTTKY DIODES

Reverse Voltage - 50 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
Continuous reverse voltage	V _{RRM}	50	V
Forward continuous current at T _A =25°C	I _F	200*	mA
Repetitive peak forward current at tp<1s, d<0.5, T _A =25°C	I _{FSM}	300*	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 100mA pulses	V _{(BR)R}	50			V
Forward voltage Pulse test tp<300ms, d<2% at I _F =0.1mA at I _F =1mA at I _F =10mA at I _F =30mA at I _F =100mA	V _F		0.200 0.272 0.365 0.460 0.700	0.300 0.380 0.450 0.600 0.900	V
Leakage current V _R =25V	I _R		0.2	0.5	mA
Junction capacitance at V _R =1V, f=1MHz	C _J			8	pF
Reverse recovery time I _F =10mA, I _R =10mA, I _{rr} =1mA	t _{rr}			5	ns
Thermal resistance junction to ambient	R _{qJA}			300*	K/mW

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