

SCHOTTKY BARRIER DIODE

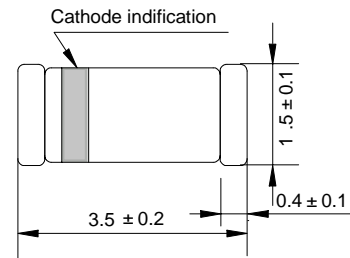
FEATURES

- Low forward voltage.
- Guard ring protected.
- Hermetically-sealed leaded glass package.

MECHANICAL DATA

- Polarity: Color band denotes cathode
- Case: LL-34 glass case

BAS85



LL-34(SOD-80) Dimensions in millimeters

Absolute Maximum Ratings (T_a = 25°C)

Parameter	Symbol	Limits	Unit
Continuous reverse voltage	V _R	30	V
Continuous forward current	I _F	200	mA
Average forward current	I _{F(AV)}	200	mA
Repetitive peak forward current	I _{FRM}	300	mA
Non-repetitive peak forward current	I _{FSM}	5	A
Operating ambient temperature	T _{amb}	-65 to +125	°C
Junction temperature	T _j	125	°C
Storage temperature range	T _S	-65 to +150	°C
Thermal resistance from junction to ambient	R _{thja}	320	K/W

Characteristics at T_a = 25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit
Forward voltage					
at I _F = 0.1mA	V _F	-	-	240	mV
at I _F = 1mA	V _F	-	-	320	mV
at I _F = 10mA	V _F	-	-	400	mV
at I _F = 30mA	V _F	-	-	500	mV
at I _F = 100mA	V _F	-	-	800	mV
Reverse current					
at V _R = 25V	I _R	-	-	2.3	μA
Reverse recovery time					
at I _F = 10mA, I _R = 10mA, R _L = 100Ω	t _{rr}	-	-	4	ns

BAS85 Typical Characteristics

