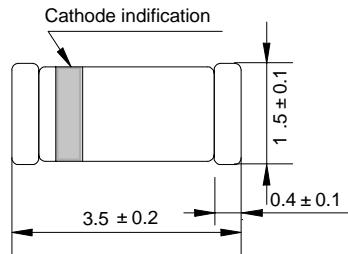


Features

- Integrated protection ring against static discharge
- Low capacitance
- Low leakage current
- Low forward voltage drop
- Very low switching time
- Lead (Pb)-free component

BAS81-BAS83



LL-34(SOD-80) Dimensions in millimeters

Mechanical Data

- **Case:**SOD-80 Glass case
- **Weight:** approx. 31 mg
- **Cathode Band Color:** Black

Maximum Ratings and Electrical Characteristics

@ $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter	Test condition	Part	Symbol	Value	Unit
Reverse voltage		BAS81	V_R	40	V
		BAS82	V_R	50	V
		BAS83	V_R	60	V
Peak forward surge current	$t_p = 1 \text{ s}$		I_{FSM}	500	mA
Repetitive peak forward current			I_{FRM}	150	mA
Forward continuous current			I_F	30	mA

Parameter	Test condition	Symbol	Min	Typ.	Max	Unit
Forward voltage	$I_F = 0.1 \text{ mA}$	V_F			330	mV
	$I_F = 1 \text{ mA}$	V_F			410	mV
	$I_F = 15 \text{ mA}$	V_F			1000	mV
Reverse current	$V_R = V_{Rmax}$	I_R			200	nA
Diode capacitance	$V_R = 1 \text{ V}, f = 1 \text{ MHz}$	C_D			1.6	pF

BAS81-BAS83

