

Schottky Diode

DO-35 Glass



Features

- For general purpose applications.
- This diode features low turn-on voltage. This device is protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges.
- Metal-on-silicon Schottky barrier device which is protected by a PN junction guard ring. The low forward voltage drop and fast switching make it ideal for protection of MOS devices, steering, biasing and coupling diodes for fast switching and low logic level applications.
- This diode is also available in the MiniMELF case with type designation BAS86.

Mechanical Data

Case: DO-35 Glass Case Weight: approx. 0.13g

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit	
Continuous Reverse Voltage	VR	50	V	
Forward Continuous Current at T _{amb} = 25°C	lF	200 ⁽¹⁾	mA	
Repetitive Forward Current at t_p < 1s, $\upsilon \le 0.5$, T _{amb} = 25°C	IFRM	500 ⁽¹⁾	mA	
Power Dissipation at T _{amb} = 25°C	Ptot	200 ⁽¹⁾	mW	
Thermal Resistance Juntion to Ambient Air	RθJA	300 ⁽¹⁾	°C/W	
Junction Temperature	Tj	125	°C	
Ambient Operating Temperature Range	Tamb	-65 to +125	°C	
Storage Temperature Range	Ts	-65 to +150	°C	

Electrical Characteristics (TJ = 25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Тур	Max	Unit
Reverse Breakdown Voltage	V(BR)R	I _{R =} 10μA (pulsed)	50	—	—	V
Leakage Current	IR	V _R = 40V	_	0.3	5.0	μΑ
Forward Voltage Pulse Test t_p < 300 μ s, δ < 2%	VF	IF = 0.1mA IF = 1mA IF = 10mA IF = 30mA IF = 100mA		0.200 0.275 0.365 0.460 0.700	0.300 0.380 0.450 0.600 0.900	V
Capacitance	Ctot	VR = 1V, f = 1MHz	_	—	8	pF
Reverse Recovery Time	trr	$I_F = 10mA$ to $I_R = 10mA$ to $I_R = 1mA$	_	_	5	ns