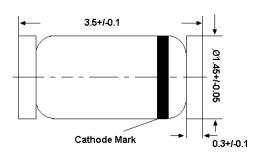
HIGH SPEED DIODE

FEATURES

- Small hermetically-sealed glass SMD package
- High switching speed
- Continuous reverse voltage
- Repetitive peak reverse voltage
- Repetitive peak forward current



Glass case MiniMELF Dimensions in mm

APPLICATION

- High-Speed Switching
- Fast Logic Applications

Absolute Maximum Ratings (Ta =	: 25°C)
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Parameter	Symbol	Limits	Unit
Repetitive peak reverse voltage	V _{RRM}	75	V
Continuous reverse voltage	V _R	75	V
Continuous forward current (note1)	I _F	200	mA
Repetitive peak forward current	I _{FRM}	450	mA
Non-repetitive peak forward current Square wave, Tj = 25 °C prior to surge $t=1 \mu s$ t=1ms t=1s	I _{FSM}	4 1 0.5	A
Power dissipation	P _{tot}	500 m	
Junction temperature	Tj	200	0°C
Storage temperature range	Ts	-65 to +200	°C
Thermal resistance from junction to tie point	R _{thjtp}	300	K/W
Thermal resistance from junction to ambient	R _{thja}	350	K/W

Note 1: Device mounted on an FR4printed- circuit board.







BAS32L

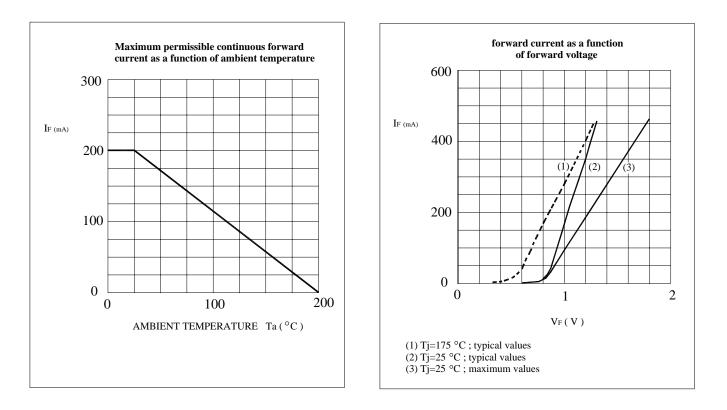
Electrical Characteristics ($T_a = 25^{\circ}C$)

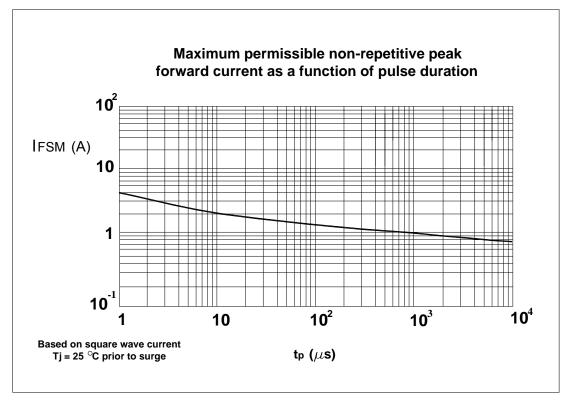
Parameter	Symbol	Min.	Тур.	Max.	Unit
Forward voltage					
at I _F = 5mA	V _F	620	-	750	mV
at I _F = 100mA	V _F	-	-	1000	mV
at I _F = 100mA, Tj = 100°C	V _F	-	-	930	mV
Reverse current					
at V _R = 20V	I _R	-	-	25	nA
at V _R = 75V	I _R	-	-	5	μA
at V _R = 20V, Tj = 150℃	I _R	-	-	50	μA
at V _R = 75V, Tj = 150℃	I _R	-	-	100	μA
Reverse breakdown voltage at I _R = 100μΑ	$V_{(BR)R}$	100	-	-	V
Diode capacitance f = 1MHz	C _d	-	-	2	pF
Reverse recovery time					
at I _F = 10mA, I _R = 10mA, R _L = 100 Ω	t _{rr}	-	-	4	ns
measured at IR = 1mA					
Forward recovery voltage	V _{fr}	_	_	2.5	V
I _F = 50mA, t _r = 20ns				2.0	v













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