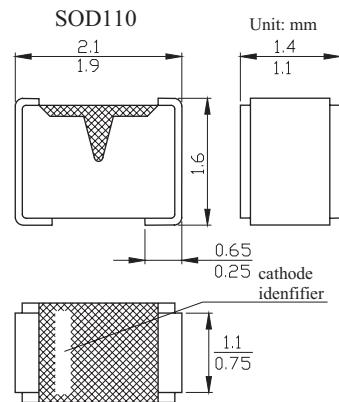


BAS216

■ Features

- Small ceramic SMD package
- High switching speed:max. 4 ns
- Continuous reverse voltage:max.75V
- Repetitive peak reverse voltage:max.85V
- Repetitive peak forward current:max. 500 mA.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Conditions	Min	Max	Unit
Continuous peak reverse voltage	V _{RRM}			85	V
Continuous reverse voltage	V _R			75	V
Continuous forward current	I _F	Note 1		250	mA
Repetitive peak forward current	I _{FSM}			500	mA
Non-repetitive peak forward current	I _{FSM}	square wave; T _j = 25 °C prior to surge; t = 1 μA t = 1 ms t = 1 s		4 1 0.5	A
Total power dissipation	P _{tot}	T _{amb} = 25 °C; note 1		400	mW
Storage temperature	T _{stg}		-65	+150	°C
Junction temperature	T _j			150	°C

Note

1. Device mounted on an FR4 printed-circuit board.

BAS216

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Conditions	Min	Max	Unit
forward voltage	VF	IF = 1 mA		715	mV
		IF = 10 mA		855	mV
		IF = 50 mA		1	V
		IF = 150 mA		1.25	V
capacitance reverse current	IR	VR = 25 V		30	nA
		VR = 75 V		1	µ A
		VR = 25 V, Tj = 150 °C		30	µ A
		VR = 25 V, Tj = 150 °C		50	µ A
diodes capacitance	Cd	VR = 1 V, f = 1 MHz		1.5	pF
reverse recovery time	t _{rr}	when switched from IF = 10 mA to IR = 10 mA; RL = 100 Ω measured at IR = 1 mA		4	ns
forward recovery voltage	V _{rr}	when switched from IF = 10 mA; tr = 20 ns		1.75	V

Note

1.Pulsed test: tp = 300 µ s, δ = 0.02.

■ Marking

Marking	A6
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