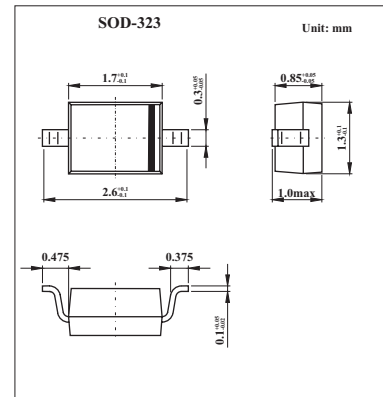


BA591

Features

- Very small plastic SMD package
- Low diode capacitance: max. 1.05 pF
- Low diode forward resistance: max. 0.7 Ω
- Small inductance.



Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Conditions	Min	Max	Unit
Continuous reverse voltage	V _R			30	V
Continuous forward current	I _F			100	mA
Total power dissipation	P _{tot}	T _s = 90°C		500	mW
Storage temperature	T _{stg}		-65	+150	°C
Junction temperature	T _j		-65	+150	°C
thermal resistance from junction to soldering point	R _{th j-s}			120	K/W

Electrical Characteristics Ta = 25°C

Parameter	Symbol	Conditions	Typ	Max	Unit
Forward voltage	V _F	I _F = 10 mA		1	V
Reverse current	I _R	V _R = 20 V		20	nA
Diode capacitance	C _d	f = 1 MHz; note 1			
		V _R = 1 V	0.8	1.05	pF
		V _R = 3 V	0.65	0.9	pF
Diode forward resistance	r _D	f = 100 MHz; note 1			
		I _F = 3 mA	0.45	0.7	Ω
		I _F = 10 mA	0.36	0.5	Ω
Reverse resistance	1/g _p	V _R = 1 V; f = 100 MHz	100		K Ω
Series inductance	L _s		2		nH

Note

1. Guaranteed on AQL basis; inspection level S4, AQL 1.0.

Marking

Marking	A1
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