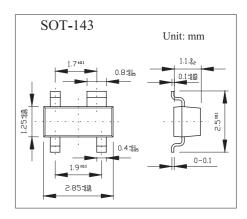
SMD Type Diodes

High-Speed Double Diode BAS56

Features

- Small plastic SMD package
- High switching speed: max. 6 ns
- Continuous reverse voltage:max. 60 V
- Repetitive peak reverse voltage:max. 60 V
- Repetitive peak forward current:max. 600 mA.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Test Condition	Min	Max	Unit
repetitive peak reverse voltage	VRRM			60	V
		series connection		120	
continuous reverse voltage	VR			60	V
		series connection		120	
continuous forward current	lF	single diode loaded;		200	mA
		double diode loaded;		150	
repetitive peak forward current	IFRM	single diode loaded		600	mA
		double diode loaded		430	
non-repetitive peak forward current	IFSM	square wave; T _j = 25℃prior to surge			A
		t = 1 μs		9	
		t = 100 μs		3	
		t = 10 ms		1.7	
total power dissipation	Ptot	Tamb = 25°ℂ		250	mW
storage temperature	Tstg		-65	+150	$^{\circ}$
junction temperature	Tj			150	$^{\circ}$ C
thermal resistance from junction to tie-point	Rth j-tp			360	K/W
thermal resistance from junction to ambient	Rth j-a			500	K/W

SMD Type Diodes

BAS56

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Condition	Min	Max	Unit
forward voltage	VF	IF = 200 mA; DC value;		1.0	mV
reverse current	lr	V _R = 60 V		100	nA
		VR =60 V;Tj = 150°C		100	μ А
reverse current	lr	series connection			
		V _R = 120 V		100	nA
		VR =120 V;Tj = 150℃		100	μА
diode capacitance	Cd	f = 1 MHz; Vr = 0		2.5	pF
reverse recovery time	trr	when switched from IF = 400 mA to,IR = 400 mA;		6	ns
		RL = 100 Ω ; measured at IR = 40 mA			
forward recovery voltage	Vfr	when switched from IF = 400 mA;tr = 30 ns;	_	2.0	V
		when switched from IF = 400 mA;tr = 100 ns;		1.5	V

Marking

Marking	L51
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