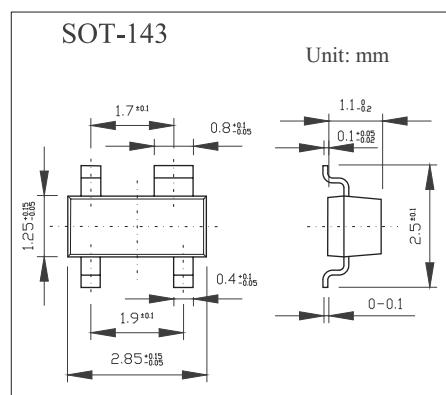


High-Speed Double Diode

BAS28

■ Features

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



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Test Condition	MIN	MAX	Unit
repetitive peak reverse voltage	V _{RMM}	200		85	V
continuous reverse voltage	V _R	100		75	V
continuous forward current	I _F	250		210	mA
repetitive peak forward current	I _{FRM}	150		500	mA
non-repetitive peak forward current	I _{FSM}	square wave; T _j = 25 °C prior to surge			
		t = 1 μ s		4	A
		t = 1 ms		1	
		t = 1 s		0.5	
total power dissipation	P _{tot}	T _{amb} = 25°C	-65	250	mW
storage temperature	T _{stg}			+150	°C
junction temperature	T _j			150	°C

BAS28■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Condition	Min	Max	Unit
forward voltage	V_F	$I_F = 1 \text{ mA}$		715	mV
		$I_F = 10 \text{ mA}$		855	mV
		$I_F = 50 \text{ mA}$		1	V
		$I_F = 150 \text{ mA}$		1.25	V
reverse current	I_R	$V_R = 25 \text{ V}$		30	nA
		$V_R = 75 \text{ V}$		1	$\mu \text{ A}$
		$V_R = 25 \text{ V}; T_j = 150^\circ\text{C}$		30	$\mu \text{ A}$
		$V_R = 75 \text{ V}; T_j = 150^\circ\text{C}$		50	$\mu \text{ A}$
diode capacitance	C_d	$f = 1 \text{ MHz}; V_R = 0$		1.5	pF
reverse recovery time	t_{rr}	when switched from $I_F = 10 \text{ mA}$ to $I_R = 10 \text{ mA}$;		4	ns
		$R_L = 100 \Omega$ measured at $I_R = 1 \text{ mA}$;			
forward recovery voltage	V_{fr}	when switched from $I_F = 10 \text{ mA}; t_r = 20 \text{ ns}$;		1.75	V

■ Marking

Marking	JT
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