



Micro Commercial Components

Micro Commercial Components  
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# BAS28

## High-Speed Double Diode

### Features

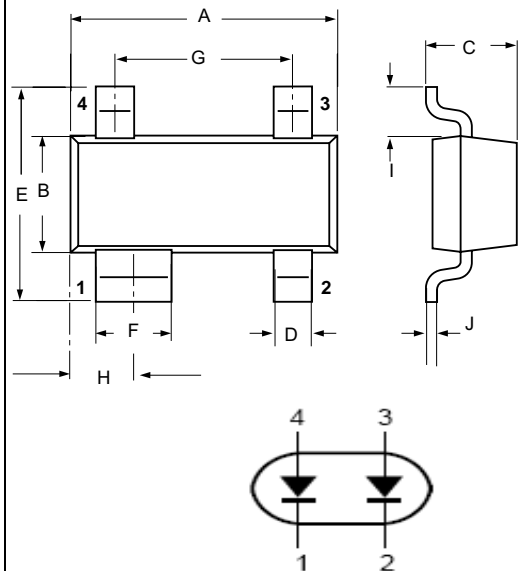
- Continuous reverse voltage: max. 75V
- High switching speed: 4ns.
- Repetitive peak forward current: max. 500mA
- High speed switching application.
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"
- Marking: JT

### Maximum Ratings

- Operating Junction & Storage Temperature: -55°C to +150°C

Parameter	Symbol	Limits	unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	85	V
Continuous Reverse Voltage	$V_R$	75	V
Continuous Forward Current	$I_F$	215	mA
Repetitive Peak Forward Current	$I_{FRM}$	500	mA
Surge Current	$t=1\mu s$	4	A
	$t=1ms$	1	
	$t=1s$	0.5	
Power Dissipation (Note 1)	$P_d$	250	mW
Thermal resistance from junction to ambient	$R_{thJA}$	500	°C/W

### SOT-143



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.047	.055	1.20	1.39	
C	.033	.045	0.84	1.14	
D	.012	.020	0.30	0.50	
E	.083	.098	2.11	2.50	
F	.031	.037	0.79	0.93	
G	.070	.080	1.78	2.03	
H	.028	.033	0.72	0.83	
I	.018	.024	0.46	0.60	
J	.003	.006	0.08	0.15	

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## ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Min	MAX	UNIT	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	75	-	V	$I_R = 100\mu A$
Forward Voltage	$V_F$	-	0.715 0.855 1.0 1.25	V	$I_F = 1mA$ $I_F = 10mA$ $I_F = 50mA$ $I_F = 100mA$
Reverse Leakage Current	$I_R$	-	0.03 1.0 30 50	$\mu A$	$V_R = 25V$ $V_R = 75V$ $V_R = 25V, T_j = 150^\circ C$ $V_R = 75V, T_j = 150^\circ C$
Diodes Capacitance	$C_d$	-	1.5	pF	$V_R = 0V, f = 1.0MHz$
Reverse Recovery Time	$t_{rr}$	-	4.0	ns	$I_F = I_R = 10mA, I_{rr} = 0.1 * I_R$
Forward recovery voltage	$V_{fr}$	-	1.75	V	$I_F = 10mA, t_r = 20ns$



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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