



Micro Commercial Components



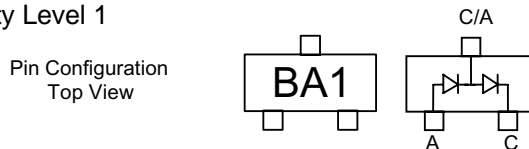
Micro Commercial Components
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DAN217

200mW 80Volt Plastic-Encapsulate Diode

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Low Current Leakage and Low Cost
- Small Outline Surface Mount Package
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1



Maximum Ratings

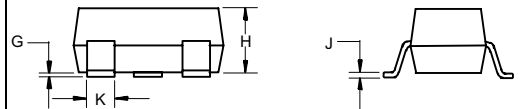
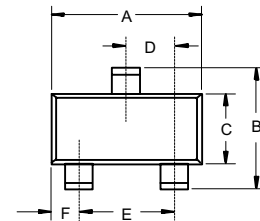
- Operating Temperature: -40°C to +150°C
- Storage Temperature: -55°C to +150°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	80	V
DC reverse voltage	V_R	80	V
Maximum forward current	I_{FM}	300	mA
Average forward current	I_O	100	mA
Surge current	I_{FSM}	1000	mA
Power dissipation	P_D	200	mW
Junction temperature	T_J	125	°C

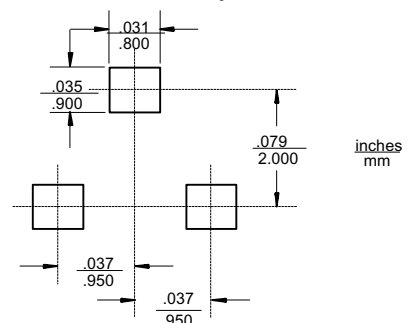
Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	V_{BR}	$I_R=100\mu A$	80		V
Reverse voltage leakage current	I_R	$V_R=70V$		0.1	μA
Forward voltage	V_F	$I_F=100mA$		1200	mV
Diode Capacitance	C_D	$V_R=0V, f=1MHz$		2.0	pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=10mA, I_{rr}=0.1I_R, R_L=100\Omega$		4.0	ns

SOT-23



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.104	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

Suggested Solder Pad Layout

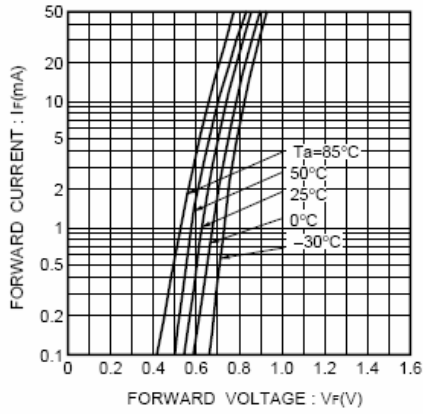


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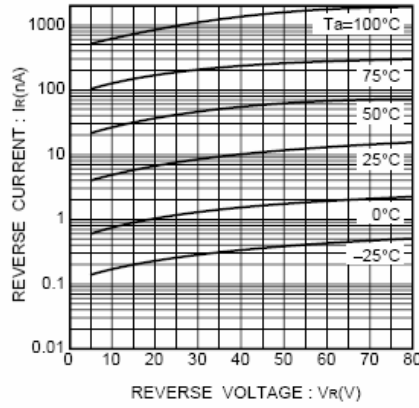
Typical Characteristics



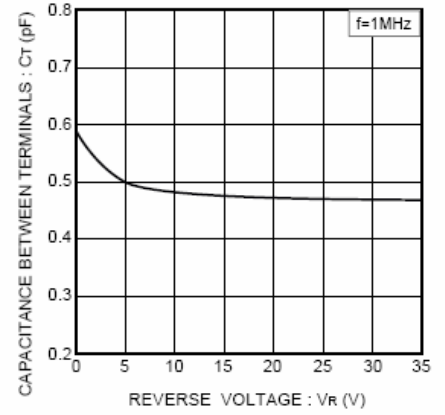
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Forward characteristics



Reverse characteristics



Capacitance between terminals characteristics



TM

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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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