

### Features

- Low Current Leakage
- Low Cost
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

### Maximum Ratings

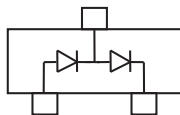
- Operating Junction Temperature Range: -40°C to +150°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
DAN217U	A7

Parameter	Symbol	Value
Peak Reverse Voltage	$V_{RM}$	80V
DC Reverse Voltage	$V_R$	80V
Peak Forward Current	$I_{FM}$	300mA
Average Rectified Output Current	$I_O$	100mA
Peak Forward Surge Current $t=8.3ms$ $t=1\mu s$	$I_{FSM}$	1A 4A
Power Dissipation	$P_D$	200mW

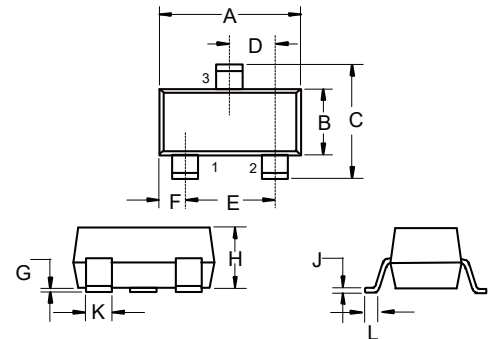
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

### Pin Configuration - Top View



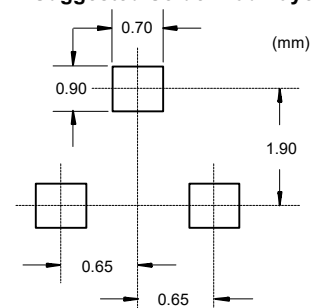
## 200mW 80Volt Plastic-Encapsulate Diode

### SOT-323



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.071	0.087	1.80	2.20	
B	0.045	0.053	1.15	1.35	
C	0.083	0.096	2.10	2.45	
D	0.026		0.65		TYP.
E	0.047	0.055	1.20	1.40	
F	0.012	0.016	0.30	0.40	
G	0.000	0.004	0.00	0.10	
H	0.035	0.044	0.90	1.10	
J	0.002	0.010	0.05	0.25	
K	0.006	0.016	0.15	0.40	
L	0.010	0.018	0.26	0.46	

### Suggested Solder Pad Layout



**Electrical Characteristics @ 25°C (Unless Otherwise Specified)**

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Breakdown Voltage	$V_{BR}$	$I_R=100\mu A$	80			V
Forward Voltage	$V_F$	$I_F=100mA$			1.2	V
Reverse Current	$I_R$	$V_R=70V$			0.2	$\mu A$
Reverse Recovery Time	$t_{rr}$	$I_F=I_R=5mA, V_R=6V, R_L=50\Omega$			4	ns

**Curve Characteristics**

Fig. 1 - Typical Instantaneous Forward Characteristics

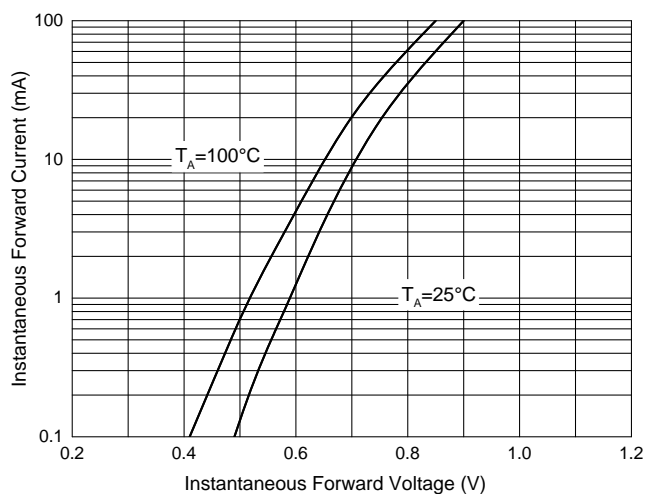


Fig. 2 - Typical Reverse Leakage Characteristics

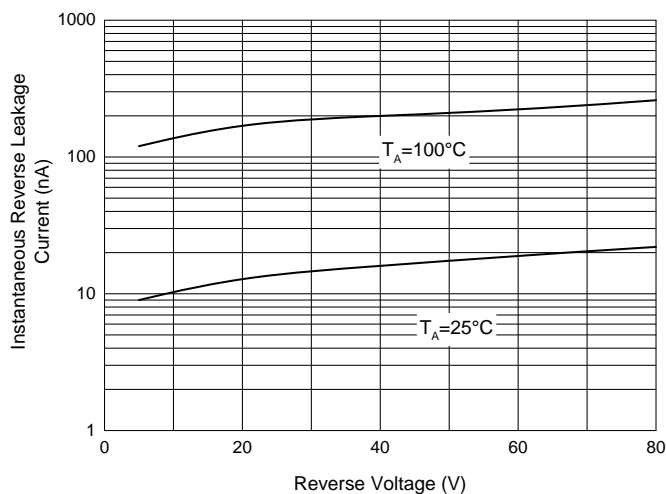
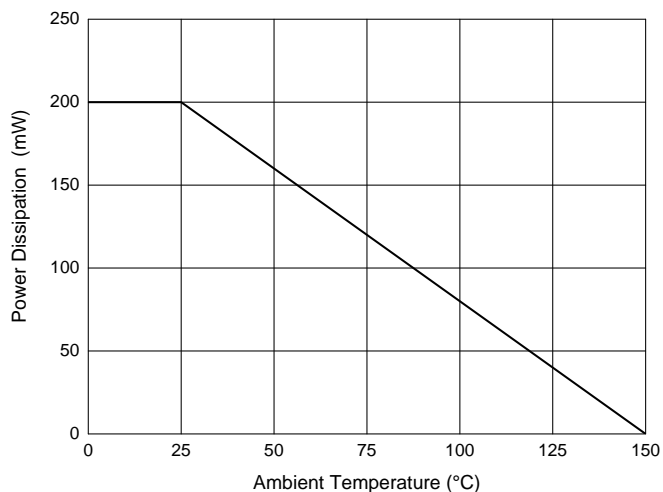


Fig. 3 - Power Derating Curve



## Ordering Information

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

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