

Features

- Suitable For High Packing Density Layout
- High Reliability
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: 150° C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance:625°C/W Junction to Ambient

MCC Part Number	Device Marking	Peak Reverse Voltage V_{RM}	DC Blocking Voltage V_R
DA227	N20	80V	80V

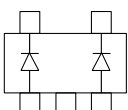
Forward Continuous Current	I_{FM}	300mA	
Average Rectified Output Current	I_o	100mA	
Non-Repetitive Peak Forward Surge Current	I_{FSM}	2.0A	@ t=8.3ms
Power Dissipation	P_D	200mW	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Minimum Reverse Breakdown Voltage	V_{BR}	80V	$I_R=100\mu A$
Maximum Forward Voltage	V_F	1.2V	$I_F=100.0mA$
Maximum Reverse Current	I_R	0.1 μA	$V_R=70V$
Maximum Diode Capacitance	C_D	3.5pF	$V_R=6.0V, f=1.0MHz$
Maximum Reverse Recovery Time	t_{rr}	4.0ns	$I_F=5mA, V_R=6V$

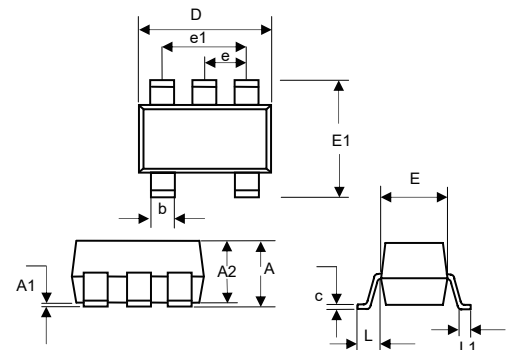
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



80 Volts Switching Diode

SOT-353



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.035	0.043	0.90	1.10	
A1	----	0.004	----	0.10	
A2	0.035	0.039	0.90	1.00	
b	0.006	0.014	0.15	0.35	
c	0.003	0.006	0.08	0.15	
D	0.790	0.087	2.00	2.20	
E	0.045	0.053	1.15	1.35	
E1	0.085	0.096	2.15	2.45	
e	0.026 TYP		0.650 TYP		
e1	0.047	0.055	1.20	1.40	
L	0.021 REF		0.525 REF		
L1	0.010	0.018	0.26	0.46	

Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

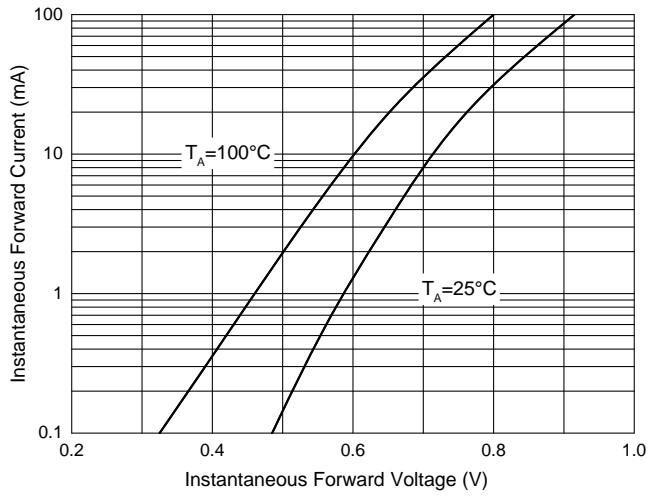


Fig. 2 - Typical Reverse Leakage Characteristics

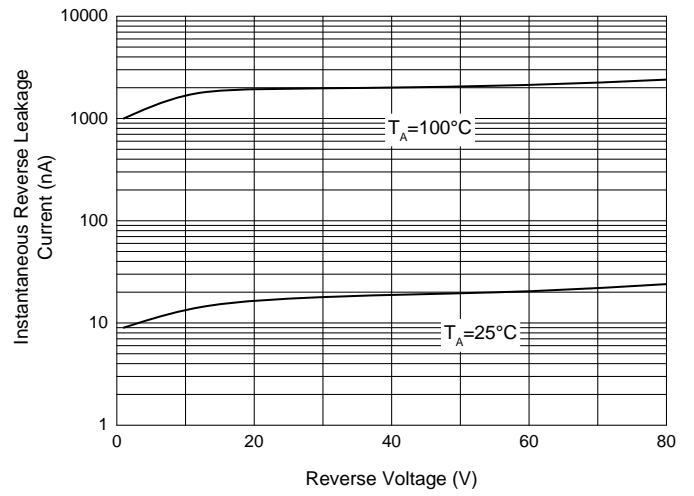
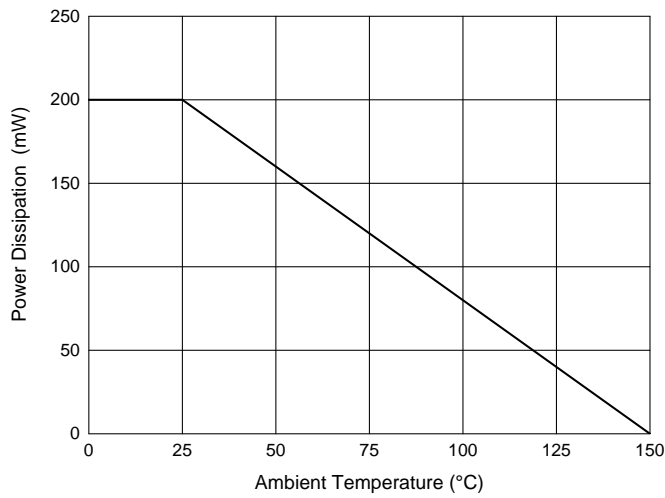


Fig. 3 - Power Derating Curve



Ordering Information

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

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