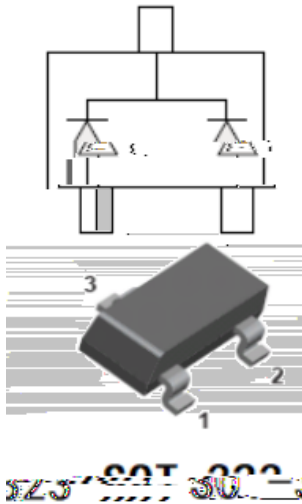


Dual Switching Diode



Features

- Moisture sensitivity level 1
- Reverse voltage 80V
- Average forward current 100mA

Application

- Signal switching
- High frequency rectifier

Mechanical data

- **Package** SOT-323
- **Terminals** Tin plated leads, solderable per J-STD-002 and JESD22-B102

Maximum Ratings (T_a=25 Unless otherwise specified)

Parameter	Symbol	Unit	Value
Device marking code			N
Repetitive peak reverse voltage	V _{RRM}	V	80
Forward current, per leg	I _F	mA	100
Non-repetitive surge peak forward current @ t=8.3ms half-sine wave	I _{FSM}	A	2
Non-repetitive surge peak forward current @ t=1ms square wave			2
Power dissipation	P _D	mW	200
Junction temperature	T _J	°C	-55 to +150
Storage temperature	T _{STG}	°C	-55 to +150

**Electrical Characteristics** ($T_a=25$ Unless otherwise specified)

Parameter	Symbol	UNIT	Conditions	Min	Typ	Max
Reverse voltage	V_R	V	$I_R=100\mu A$	80		
Forward voltage	V_F	V	$I_F=100mA$			1.2
Reverse leakage current	I_R	μA	$V_R=70V$			0.1
Junction capacitance	C_j	pF	$V_R=6V, f=1MHz$			4
Reverse recovery time	T_{rr}	ns	$I_F=I_R=10mA$ $I_{rr}=0.1 \cdot I_R$, $R_L=100$			4

Thermal Characteristics

Parameter	Symbol	Unit	Value
Thermal resistance, junction-to-ambient	$R_{J-A}^{(1)}$	$^{\circ}C/W$	625
Thermal resistance, junction-to-case	$R_{J-C}^{(1)}$	$^{\circ}C/W$	500

Note:

- 1 Device mounted on PCB, single-sided copper with standard footprint

Characteristics

Fig 1 Pb-Ta Curve

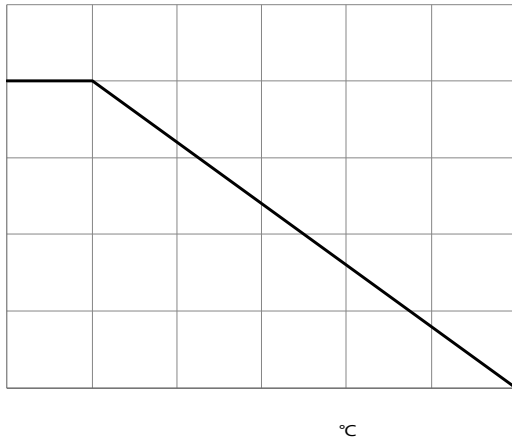


Fig 2 Capacitance Capability

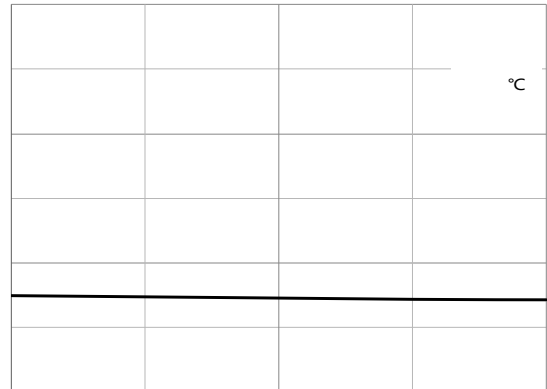


Fig 3 Typical Forward Characteristics

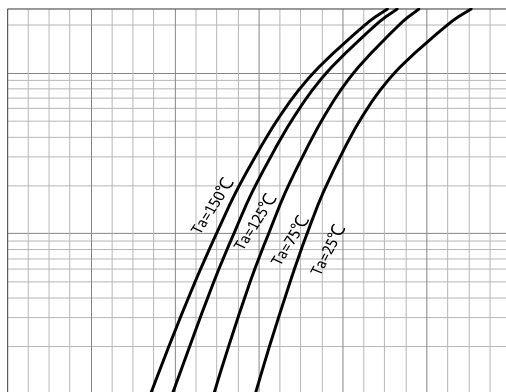
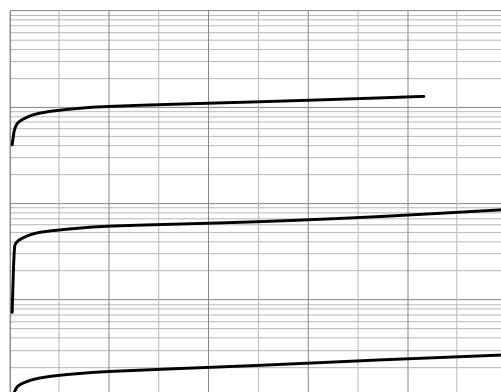


Fig 4 Typical Reverse Characteristics





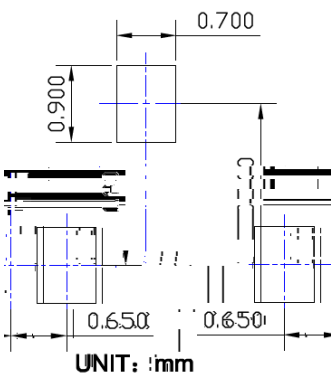
Ordering Information

Preferred P/N	Packing code	Unit weight(g)	Minimum package(pcs)	Inner box quantity(pcs)	Outer carton quantity (pcs)	Delivery mode
DAN202U	F2	Approximate 0.005	3000	30000	120000	7" reel

Outline Dimensions

SYMBOL	DIMENSIONS			
	INCHES		Millimeter	
	MIN.	MAX.	MIN.	MAX.
A	0.035	0.043	0.900	1.100
A1	0.000	0.004	0.000	0.100
b	0.016	0.020	0.400	0.500
c	0.010	0.012	0.250	0.300
d	0.087	1.000	2.200	2.500
e	0.053	1.050	1.350	1.350
e1	0.096	2.150	2.450	2.450
e	0.026TYP		0.650TYP	
e1	0.047	0.055	1.200	1.400
L	0.021REF		0.528REF	
θ	0.010	0.018	0.260	0.460
θ	0°	8°	0°	8°

Suggested Pad Layout





Disclaimer

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