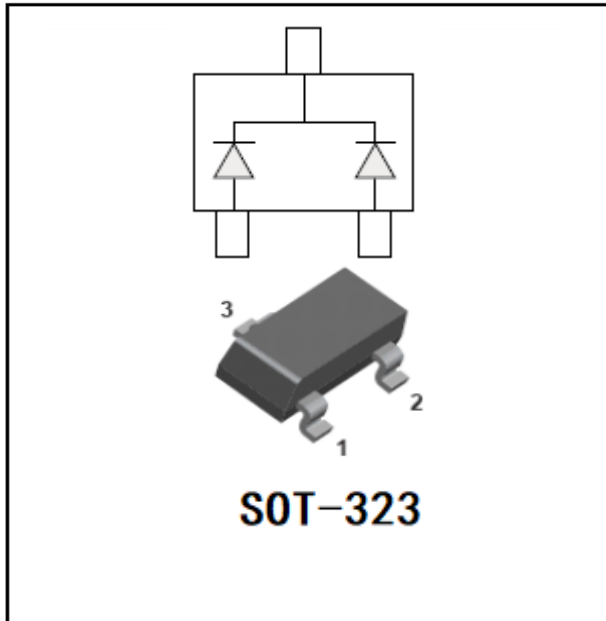


## Dual Switching Diode



### Features

- Epoxy meets UL-94 V-0 flammability rating
- Fast switching speed
- High Conductance
- Surface mount package ideally Suited for Automatic Insertion

### Mechanical Data

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

### ■ Maximum Rating, ( $T_a=25^{\circ}\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Value
Peak Reverse Voltage	$V_{RRM}$	V	80
Reverse Voltage	$V_R$	V	80
Forward Continuous Current	$I_F$	mA	100
Non-repetitive Peak Forward Surge Current @ $t_p=1\mu\text{s}$	$I_{FSM}$	A	4
Power Dissipation	$P_D$	mW	200
Maximum junction temperature	$T_J$	$^{\circ}\text{C}$	150
Storage Temperature	$T_{STG}$	$^{\circ}\text{C}$	-55 to +150

### ■ Ordering Information (Example)

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

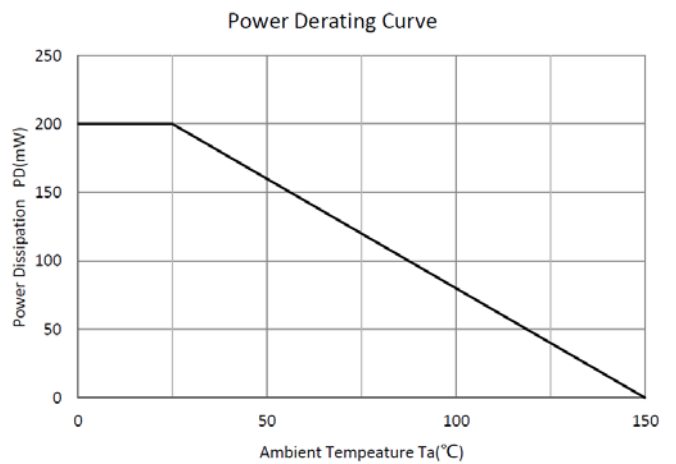
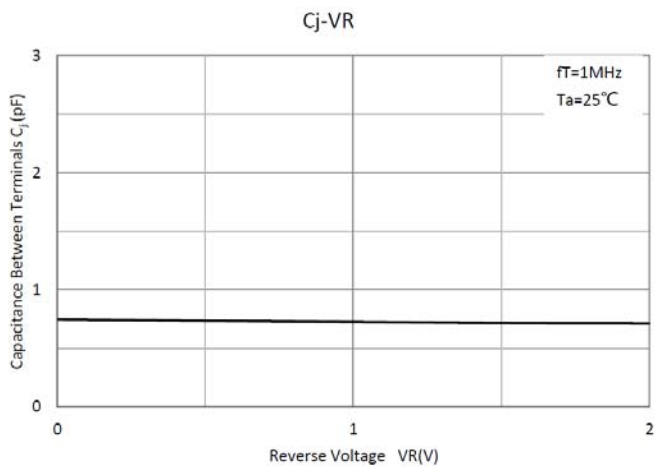
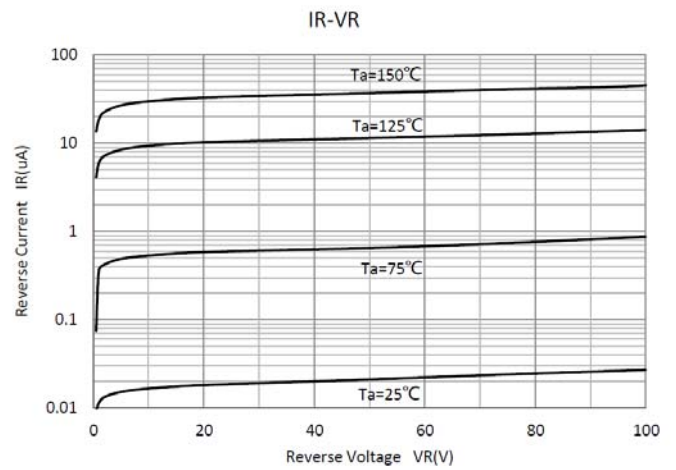
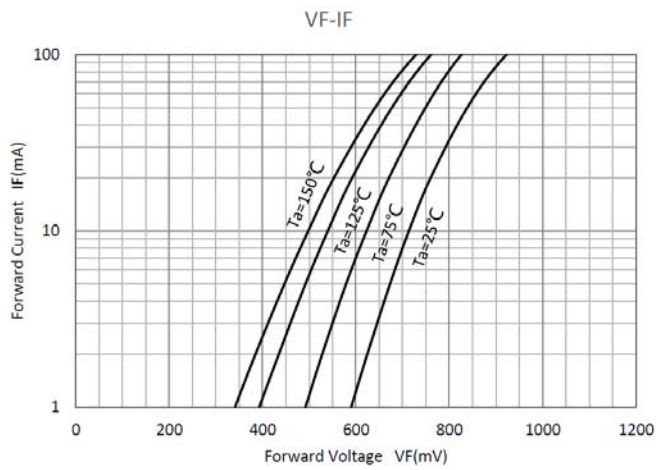


# DAN202U

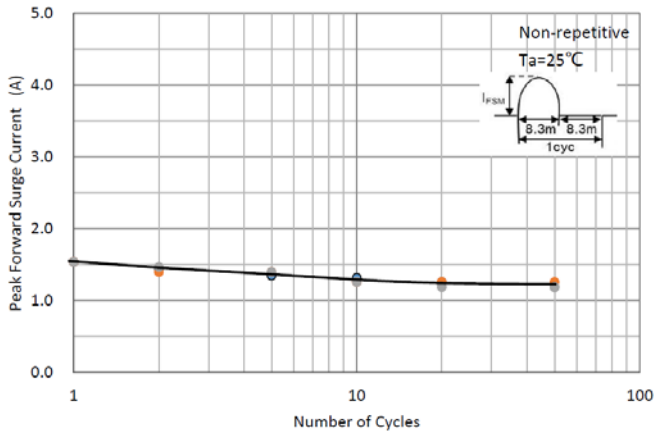
## ■ Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified, Per Leg)

Item	Symbol	Unit	Conditions	Value
Minimum Reverse Voltage	V <sub>R</sub>	V	I <sub>R</sub> =100uA	80
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	V	I <sub>F</sub> =100mA	1.2
Maximum DC Reverse Current	I <sub>R</sub>	uA	V <sub>R</sub> =70V	0.1
Typical Junction Capacitance	C <sub>J</sub>	pF	f=1.0MHz, V <sub>R</sub> =6V	4
Maximum Reverse Recovery Time	T <sub>rr</sub>	ns	I <sub>F</sub> = I <sub>R</sub> =10mA, R <sub>L</sub> =100Ω, I <sub>rr</sub> =0.1* I <sub>R</sub>	4

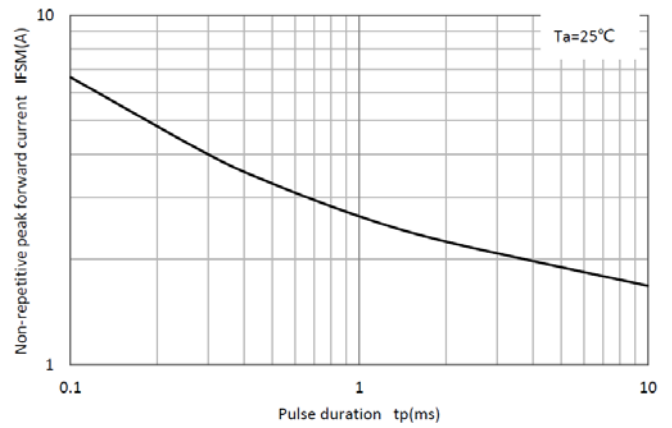
## ■ Typical Characteristics



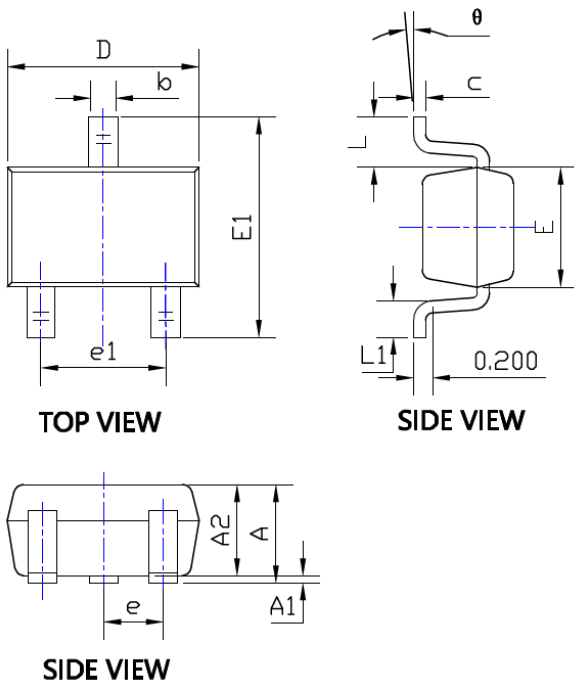
Surge Forward Current Capability



IFSM-tp

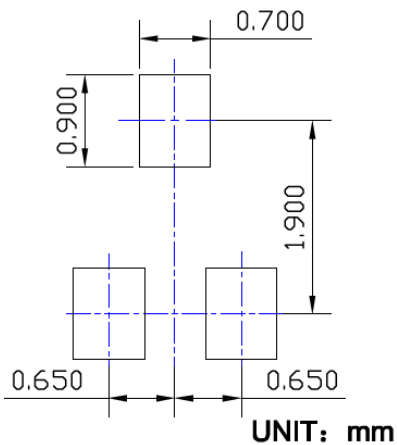


## ■ SOT-323 Package Outline Dimensions



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
A2	0.035	0.039	0.900	1.000
b	0.006	0.016	0.150	0.400
c	0.004	0.010	0.100	0.250
D	0.071	0.087	1.800	2.200
E	0.045	0.053	1.150	1.350
E1	0.085	0.096	2.150	2.450
e	0.026 TYP		0.650 TYP	
e1	0.047	0.055	1.200	1.400
L	0.021 REF		0.525 REF	
L1	0.010	0.018	0.260	0.460
θ	0°	8°	0°	8°

## ■ SOT-323 Soldering Footprint





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