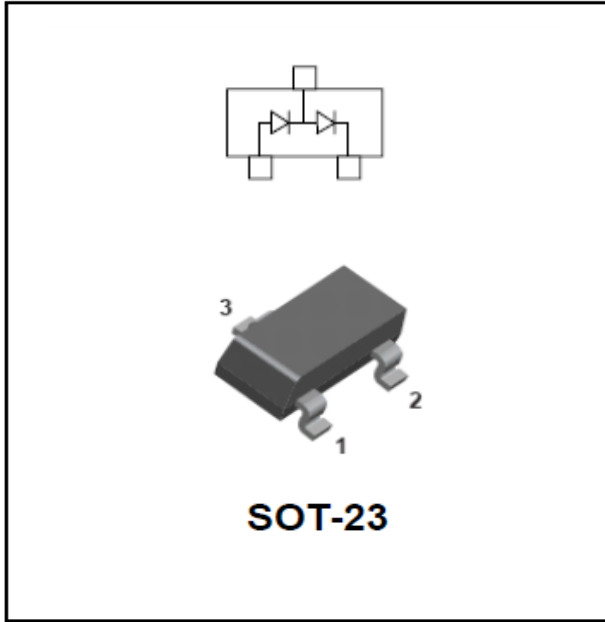


Dual Switching Diode



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-23
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:** BA1

■Maximum Ratings (Ta=25°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 @ $t_p \leq 10ms$	I_{FSM}	A	1
Power Dissipation	P_D	mW	200
Maximum junction temperature	T_j	°C	150
Storage Temperature	T_{STG}	°C	-55 to +150

■Ordering Information (Example)

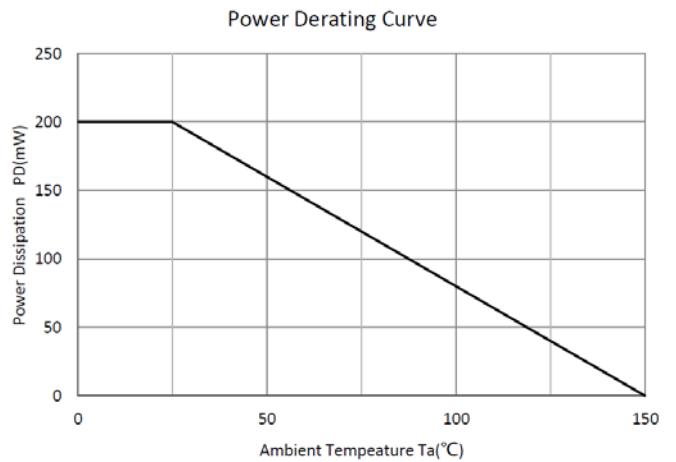
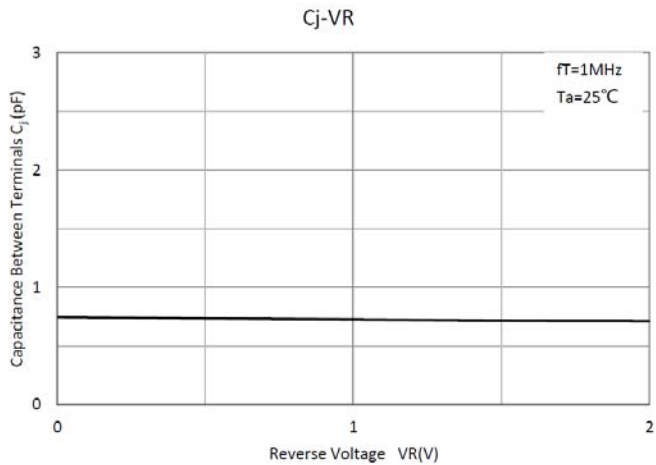
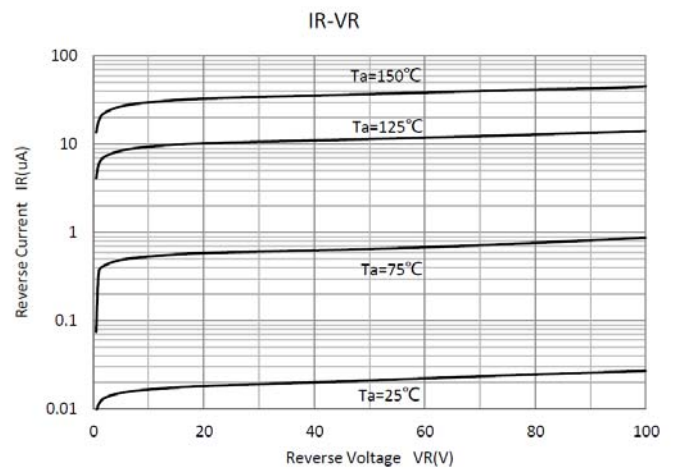
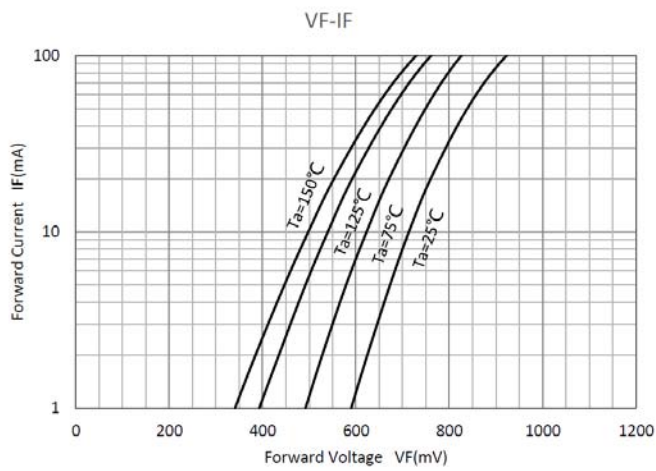
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
DAN217	F2	Approximate 0.008	3000	30000	120000	7" reel



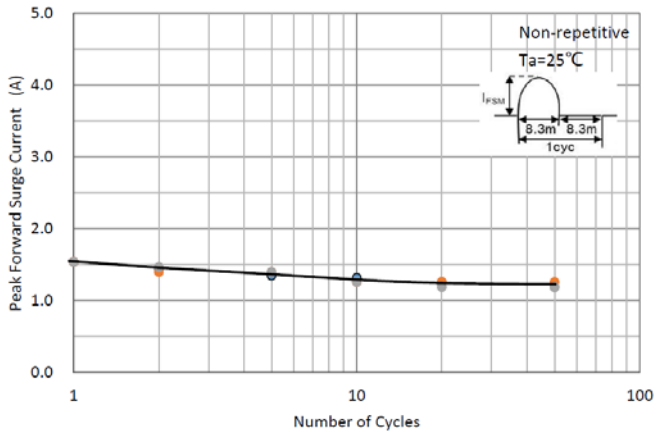
■ Electrical Characteristics (Ta=25°C Unless otherwise specified, Per Leg)

Item	Symbol	Unit	Conditions	Value
Minimum Reverse Voltage	V_R	V	$I_R=100\mu A$	80
Maximum Forward Voltage	V_F	V	$I_F=100mA$	1.2
Maximum DC Reverse Current	I_R	μA	$V_R=70V$	0.1
Typical Junction Capacitance	C_J	pF	$f=1.0MHz, V_R=0V$	2
Maximum Reverse Recovery Time	T_{rr}	ns	$I_F=I_R=10mA, R_L=100\Omega, I_{rr}=0.1 * I_R$	4

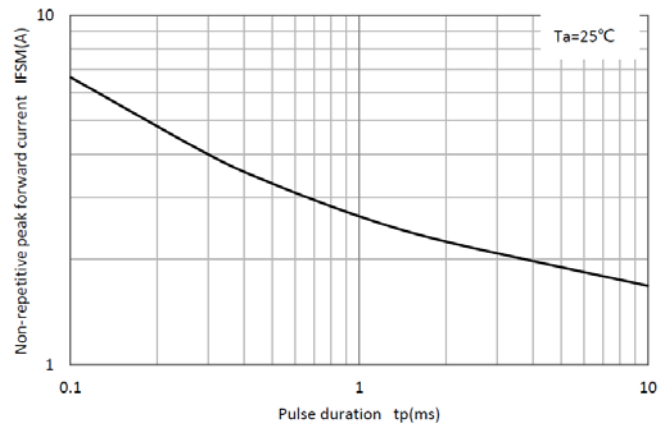
■ Typical Characteristics



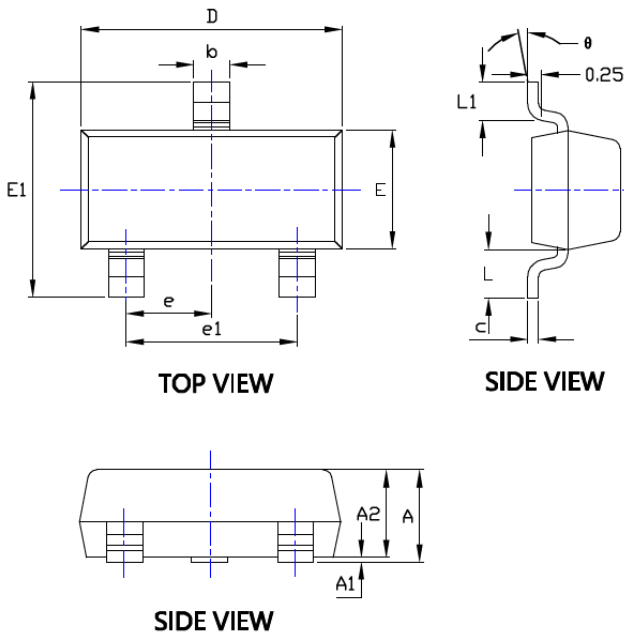
Surge Forward Current Capability



IFSM-tp

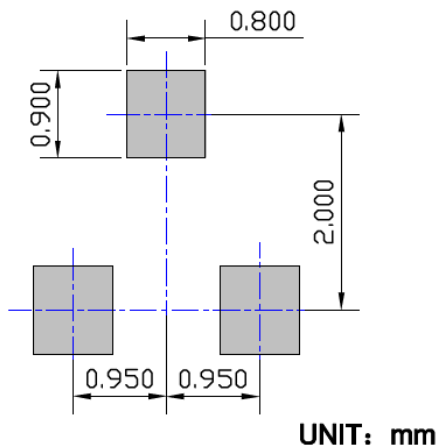


■SOT-23 Package Outline Dimensions



SYMBOL	DIMENSIONS			
	INCHES		Millimeter	
	MIN.	MAX.	MIN.	MAX.
A	0.035	0.045	0.900	1.150
A1	0.000	0.004	0.000	0.100
A2	0.035	0.041	0.900	1.050
b	0.012	0.020	0.300	0.500
c	0.004	0.008	0.100	0.200
D	0.110	0.118	2.800	3.000
E	0.047	0.055	1.200	1.400
E1	0.089	0.100	2.250	2.550
e	0.037TYP		0.950TYP	
e1	0.071	0.079	1.800	2.000
L	0.022REF		0.550REF	
L1	0.012	0.020	0.300	0.500
θ	0°	8°	0°	8°

■SOT-23 Soldering Footprint





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