

SURFACE MOUNT SWITCHING DIODES

410 mW

- Fast switching Speed.
- Electrically identical to standard JEDEC
- High Conductance
- Surface mount package ideally suited for automatic insertion.
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std..

(Halogen Free)

- Case: SOT-23 6L plastic case
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0005 ounces, 0.014 grams
- Marking: DA2

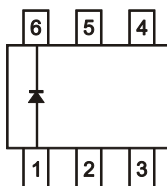
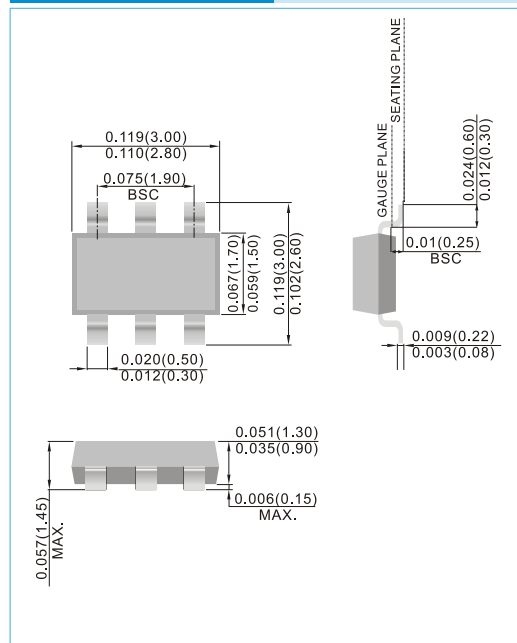


Fig.215(TOP VIEW)

Unit : inch(mm)



PARAMETER	SYMBOL	VALUE	UNIT
Reverse Voltage	V _R	75	V
Peak Reverse Voltage	V _{RM}	100	V
RMS Voltage	V _{RMS}	50	V
Maximum DC Blocking Voltage	V _{DC}	75	V
Maximum Average Forward Current at T _A =25°C	I _{AV}	150	mA
Peak Forward Surge Current, 1μs	I _{FSM}	4	A
Power Dissipation Derate Above 25 °C	P _{TOT}	410	mW
Maximum Forward Voltage	V _F	0.715@0.001A 0.855@0.01A 1@0.05A 1.25@0.15A	V

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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ($T_J=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=25^\circ\text{C}$	I_R	0.025@20V 2.5@75V	μA
Junction Capacitance (Note 1)	C_J	1.5	pF
Maximum Reverse Recovery Time (Note 2)	T_{RR}	4	ns
Typical Thermal Resistance	$R_{\theta JA}$	450	$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_J	-55 to +150	$^\circ\text{C}$

Note:1. C_J at $V_R=0$, $f=1\text{MHz}$

2. From $I_F=10\text{mA}$ to $I_R=1\text{mA}$, $V_R=6\text{V}$, $R_L=100\Omega$

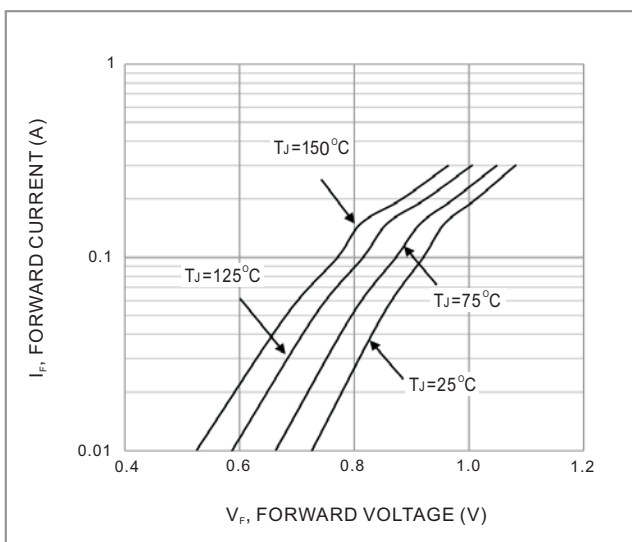


Fig.1 TYPICAL FORWARD CHARACTERISTICS

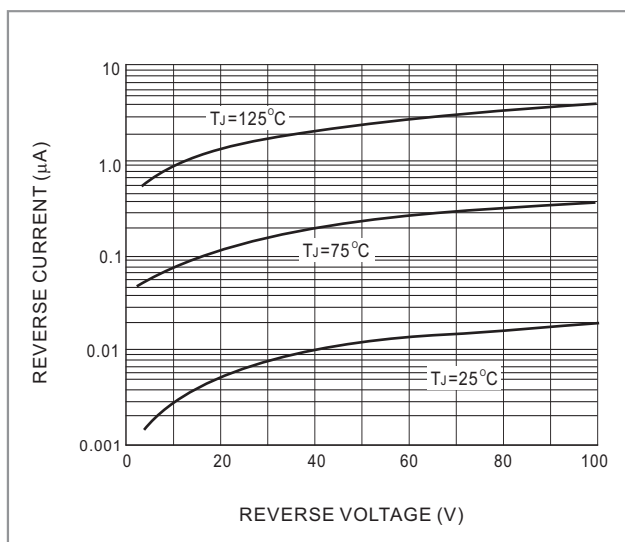


Fig.2 TYPICAL REVERSE CHARACTERISTICS

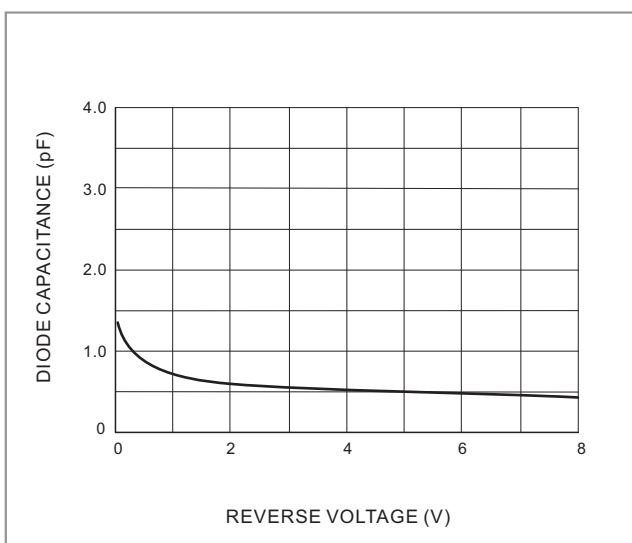


Fig.3 TYPICAL JUNCTION CAPACITANCE

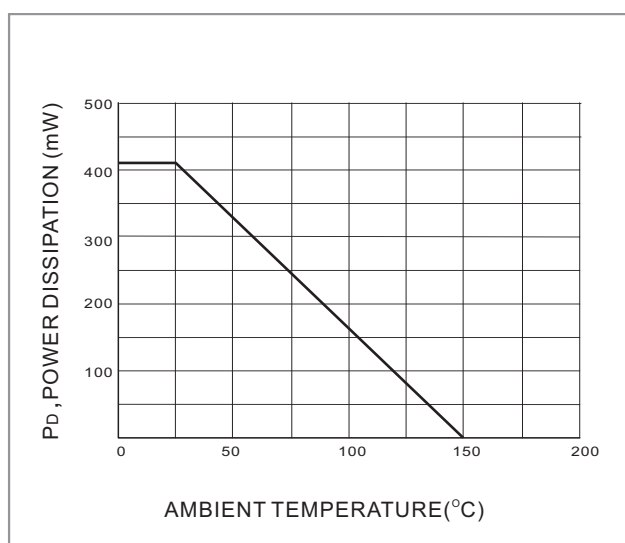
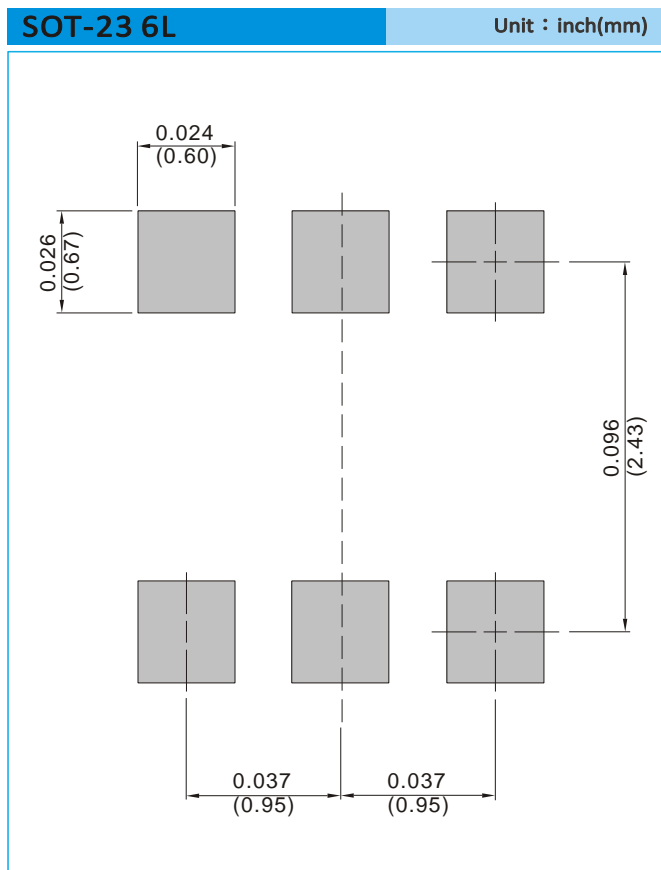


Fig.4 POWER DERATING CURVE

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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
T/R – 10K per 13" plastic Reel
T/R – 3K per 7" plastic Reel

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Part No_packing code_Version

1N4148GW6_R1_00001

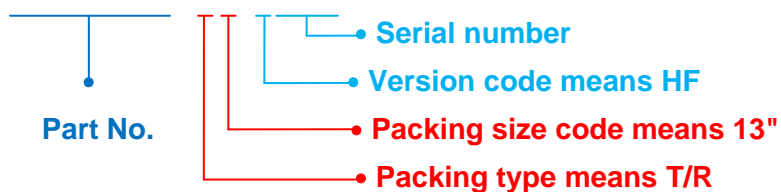
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1N4148GW6_S1_00001

1N4148GW6_S2_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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