



SURFACE MOUNT SWITCHING DIODES

Voltage

100 V

Power

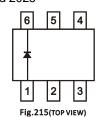
410 mW

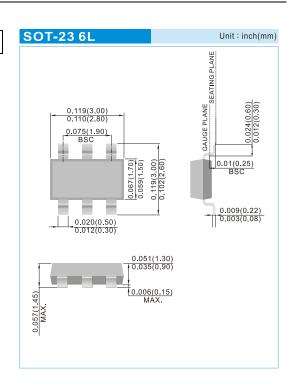
Features

- · 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)

Mechanical Data

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





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_J=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Reverse Voltage	VR	75	V
Peak Reverse Voltage	Vrm	100	V
RMS Voltage	VRMS	50	V
Maximum DC Blocking Voltage	VDC	75	V
Maximum Average Forward Current at T _A =25°C	lav	150	mA
Peak Forward Surge Current, 1μs	IFSM	4	Α
Power Dissipation Derate Above 25 °C	Ртот	410	mW
		0.715@0.001A	
Maximum Forward Voltage	\/-	0.855@0.01A	\ \/
	VF	1@0.05A	V
		1.25@0.15A	





100

1N4148GW6

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_J=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT	
Maximum DC Reverse Current at Rated DC Blocking	<u></u>	0.025@20V	^	
Voltage T _J =25°C	l _R	2.5@75V	μΑ	
Junction Capacitance (Note 1)	Сл	1.5	pF	
Maximum Reverse Recovery Time (Note 2)	Trr	4	ns	
Typical Thermal Resistance	Rөja	450	°C/W	
Operating and Storage Temperature Range	TJ	-55 to +150	°C	

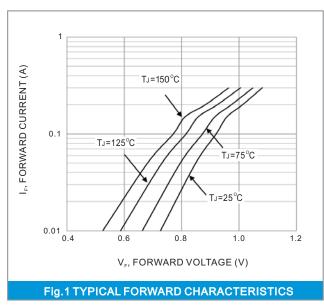
10

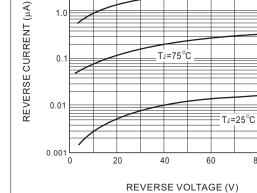
1.0

0.1

Note:1.CJ at VR=0, f=1MHZ

2.From IF=10mA to IR=1mA, VR=6V, RL=100 Ω





TJ=125°C

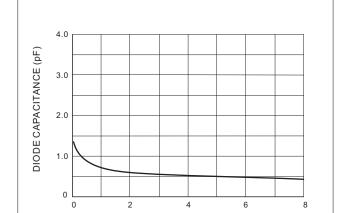


Fig.2 TYPICAL REVERSE CHARACTERISTICS

Tj=75°C

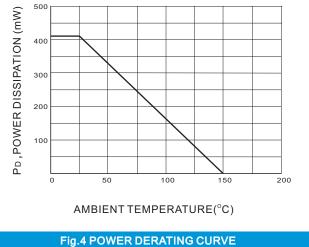


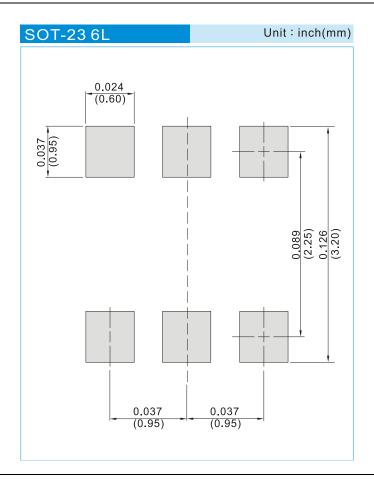
Fig.3 TYPICAL JUNCTION CAPACITANCE

REVERSE VOLTAGE (V)





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 10K per 13" plastic Reel

T/R – 3K per 7" plastic Reel





Part No_packing code_Version

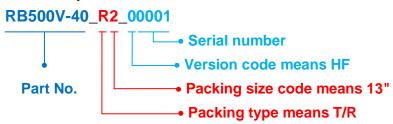
1N4148GW6_R1_00001

1N4148GW6_R2_00001

1N4148GW6_S1_00001

1N4148GW6_S2_00001

For example:



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)	В	13"	2			
Tube Packing (T/P)	т	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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