

Surface Mount Switching Multi-Chip Diode Array

Pb Lead(Pb)-Free

Features:

- * Ultra High Speed Switching
- * Ultra-Small Surface Mount Package
- * For General Purpose Switching Applications
- * High Conductance Power Dissipation

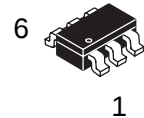
Mechanical Data:

- * Case : TSOP-6
- * Case Material : Molded Plastic. UL Flammability Classification Rating 94V-0
- * Moisture Sensitivity : Level 1 per J-STD-020C
- * Terminals : Solderable per MIL-STD-202, Method 208
- * Polarity : See Diagram

MULTI-CHIP DIODES

100m AMPERES

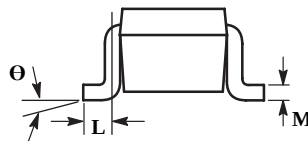
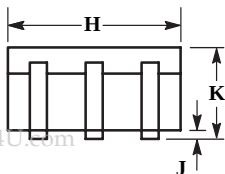
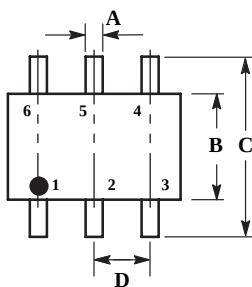
80 VOLTS



TSOP-6

TSOP-6 Outline Dimensions

Unit:mm



TSOP-6		
Dim	Min	Max
A	0.25	0.50
B	1.30	1.70
C	2.50	3.00
D	0.85	1.05
θ	0°	10°
H	2.90	3.10
J	0.01	0.10
K	0.90	1.10
L	0.20	0.60
M	0.10	0.26

Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

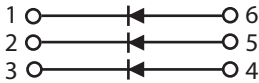
Characteristic	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	80	V
DC Reverse Voltage	V_R	80	V
Peak Forward Current	I_{FM}	300	mA
Average Rectified Output Current	I_O	100	mA
Non-Repetitive Peak Forward Surge Current @ $t = 1.0\text{s}$	I_{FSM}	4.0	A
Power Dissipation (Note 1)	P_D	300	mW
Operating Temperature Range	T_j	+150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ\text{C}$

Note 1 : Not to exceed 200mW per element.

Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

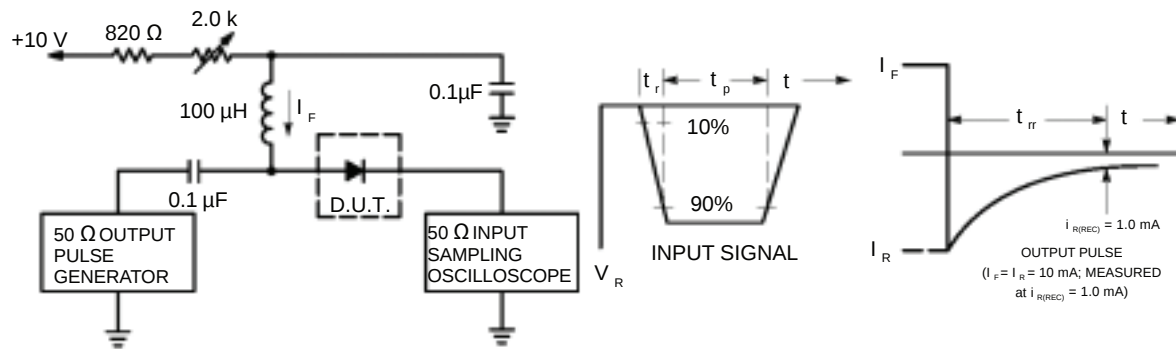
Characteristic	Symbol	Min	Max	Unit
Forward Voltage $I_F = 100\text{mA}$	V_F	-	1.2	V
Reverse Current $V_R = 70\text{V}$	I_R	-	0.1	μA
Capacitance between terminals $V_R = 6\text{V}$, $f = 1.0\text{MHz}$	C_T	-	3.5	pF
Reverse Recovery Time $V_R = 6\text{V}$, $I_F = 5\text{mA}$	T_{rr}	-	4.0	ns

Device Marking

Item	Marking	Equivalent Circuit diagram
WIMN10	N10	

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Typical Characteristics



- Notes: 1. A 2.0 kΩ variable resistor adjusted for a Forward Current (I_F) of 10mA.
 2. Input pulse is adjusted so $I_{R(\text{peak})}$ is equal to 10mA.
 3. $t_p \gg t_r$

Figure 1. Recovery Time Equivalent Test Circuit

CURVES APPLICABLE TO EACH DIODE

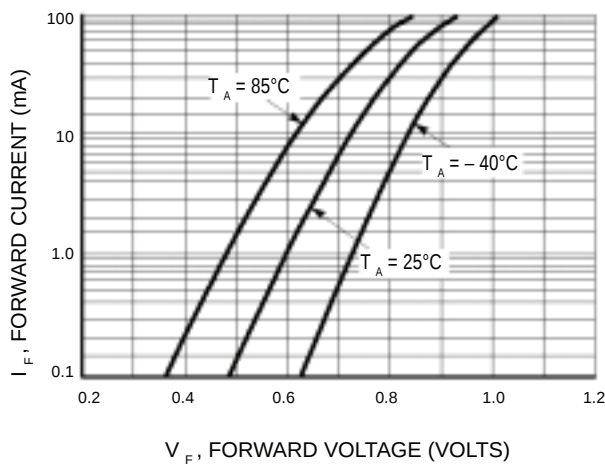


Figure 2. Forward Voltage

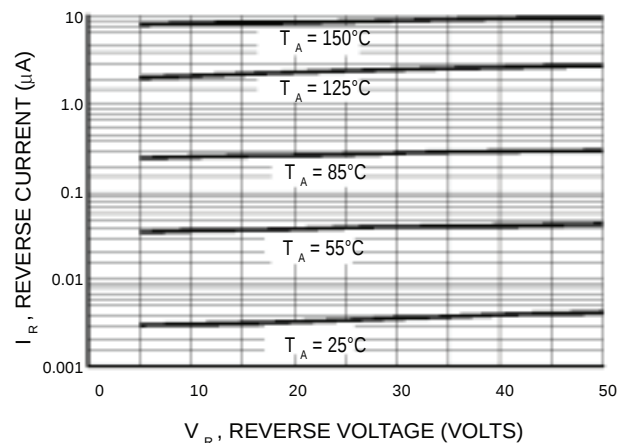


Figure 3. Leakage Current

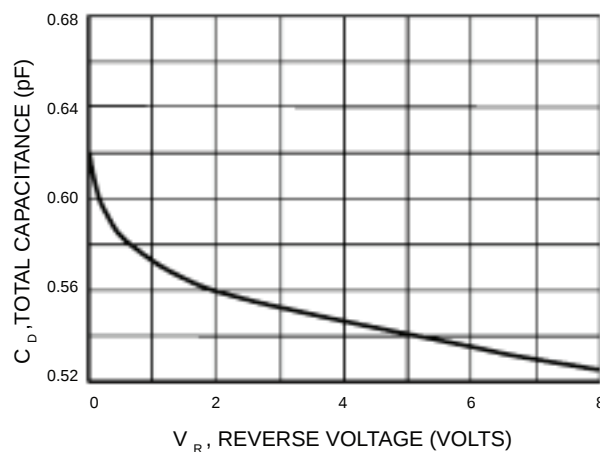


Figure 4. Capacitance