

ULTRA HIGH SPEED SWITCHING APPLICATION.

- . Small Package
- . Low Forward Voltage : $V_F=0.92V(Typ.)$
- . Fast Reverse Recovery Time : $t_{rr}=1.6ns(Typ.)$
- . Small Total Capacitance : $C_T=2.2pF(Typ.)$

MAXIMUM RATINGS ($T_a=25^\circ C$)

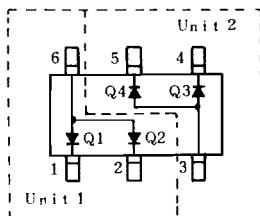
| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-------------------------------|-----------|---------|------------|
| Maximum(Peak) Reverse Voltage | V_{RM} | 85 | V |
| Reverse Voltage | V_R | 80 | V |
| Maximum(Peak) Forward Current | I_{FM} | 300* | mA |
| Average Forward Current | I_O | 100* | mA |
| Surge Current (10ms) | I_{FSM} | 2* | A |
| Power Dissipation | P | 300* | mW |
| Junction Temperature | T_j | 125 | $^\circ C$ |
| Storage Temperature | T_{stg} | -55~125 | $^\circ C$ |

* : This is the Maximum Ratings of single diode (Q1 or Q2 or Q3 or Q4). In the case of using Unit 1 and Unit 2 independently or simultaneously, the Maximum Ratings per diode is 75% of the single diode one.

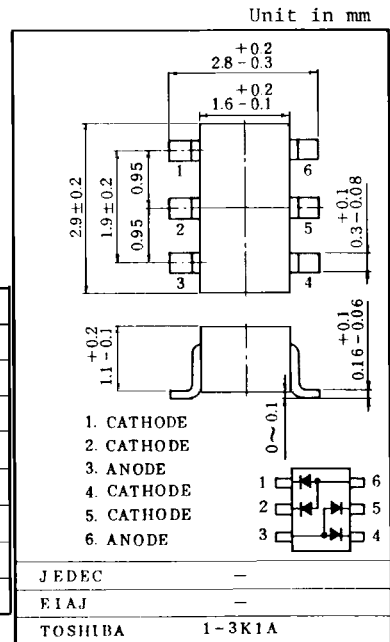
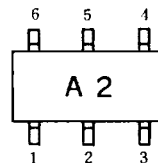
ELECTRICAL CHARACTERISTICS (Q1, Q2, Q3, Q4 COMMON, $T_a=25^\circ C$)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|-----------------------|----------|---------------------|------|------|------|---------|
| Forward Voltage | $V_F(1)$ | $I_F=1mA$ | - | 0.61 | - | V |
| | $V_F(2)$ | $I_F=10mA$ | - | 0.74 | - | |
| | $V_F(3)$ | $I_F=100mA$ | - | 0.92 | 1.20 | |
| Reverse Current | $I_R(1)$ | $V_R=30V$ | - | - | 0.1 | μA |
| | $I_R(2)$ | $V_R=80V$ | - | - | 0.5 | |
| Total Capacitance | C_T | $V_R=0, f=1MHz$ | - | 2.2 | 4.0 | pF |
| Reverse Recovery Time | t_{rr} | $I_F=10mA$ (Fig. 1) | - | 1.6 | 4.0 | ns |

PIN ASSIGNMENT (TOP VIEW)



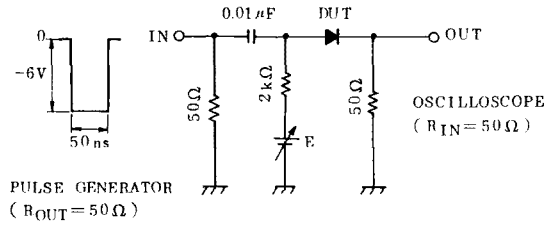
Marking



Weight : 0.014g

Fig. 1 REVERSE RECOVERY TIME (t_{rr}) TEST CIRCUIT

INPUT WAVEFORM



OUTPUT WAVEFORM

