# 1S1553~1S1555

Silicon Epitaxial Planar Type

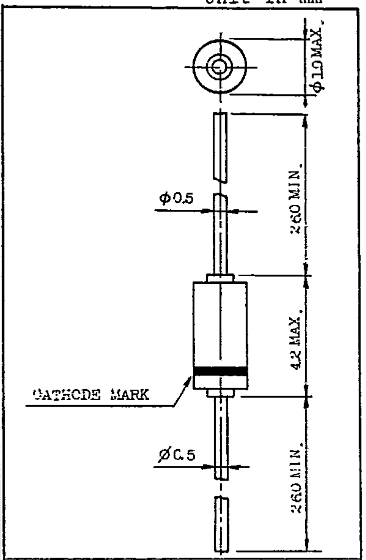
Diode

GENERAL PURPOSE APPLICATION FOR DETECTOR AND RECTIFIER.

FEATURES:

- Low Forward Voltage : $V_F$=1.0V (Typ.)
- Small Total Capacitance : $C_T$=1.3pF (Typ.)

Unit in mm



| | |
|---|---|
| JEDEC | DO-35 |
| EIAJ | SC-40 |
| TOSHIBA | 1-2A1A |

Weight : 0.14g

Marking

1S1553

1S1554

1S1555

MAXIMUM RATINGS (Ta=25°C)

| CHARACTERISTIC | | SYMBOL | RATING | UNIT |
|---|---|---|---|---|
| Maximum (Peak) Reverse Voltage | 1S1553 | $V_{RM}$ | 70 | V |
| | 1S1554 | | 55 | |
| | 1S1555 | | 35 | |
| Reverse Voltage | 1S1553 | $V_R$ | 60 | V |
| | 1S1554 | | 50 | |
| | 1S1555 | | 30 | |
| Maximum (Peak) Forward Current | | $I_{FM}$ | 300 | mA |
| Average Forward Current | | $I_O$ | 100 | mA |
| Surge Current (1 sec) | | $I_{FSM}$ | 1 | A |
| Power Dissipation | | P | 300 | mW |
| Junction Temperature | | $T_j$ | 150 | °C |
| Storage Temperature Range | | Tstg | -65~150 | °C |

ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CARACTERISTIC | | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|---|---|---|---|---|---|---|---|
| Forward Voltage | | $V_F$ | $I_F$=100mA | - | 1.0 | 1.4 | V |
| Reverse Current | 1S1553 | $I_R$ | $V_R$=60V | - | - | 0.5 | μA |
| | 1S1554 | | $V_R$=50V | | | | |
| | 1S1555 | | $V_R$=30V | | | | |
| Total Capacitance | | $C_T$ | $V_R$=0 f=1MHz | - | 1.3 | 3.5 | pF |

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