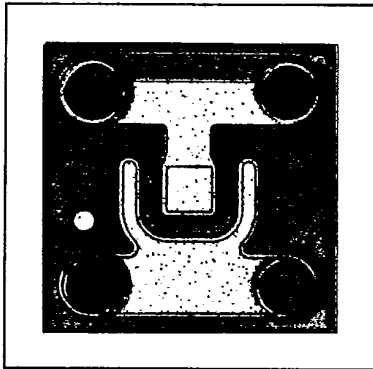


6367255 MOTOROLA SC (DIODES/OPTO)

34C 38192 D
T-63-09**MMCFD914****FLIP-CHIP
SWITCHING DIODE**

Flip-Chip diode for high-speed switching applications with performance similar to the 1N914.

Primary Electrical Features:

- Breakdown Voltage – $V_{BR} = 100V$ (Min)
- Forward Current – to 225 mAdc
- Reverse Recovery time – $t_{rr} \leq 5.0$ ns

MAXIMUM RATINGS

| Rating | Symbol | Value | Unit |
|-----------------------|---------------------|-------|------|
| Reverse Voltage | V_R | 100 | Vdc |
| Forward Current | I_F | 225 | mAdc |
| Forward Surge Current | $I_F(\text{surge})$ | 500 | mAdc |

13**ELECTRICAL CHARACTERISTICS** ($T_A = 25^\circ C$ unless otherwise noted)

| Characteristic | Symbol | Min | Max | Unit |
|---|----------|-----|-----|------|
| Breakdown Voltage ($I_{BR} = 10 \mu\text{Adc}$) | V_{BR} | 50 | — | Vdc |
| Reverse Current ($V_R = 20$ Vdc) | I_R | — | 50 | nAdc |
| Forward Voltage ($I_F = 10$ mAdc) | V_F | — | 1.0 | Vdc |
| Capacitance ($V_R = 0$) | C | — | 5.0 | pF |
| Reverse Recovery Time ($I_F = 10$ mAdc, $V_R = 6.0$ Vdc, $i_{rr} = 1.0$ mAdc) | t_{rr} | — | 5.0 | ns |