

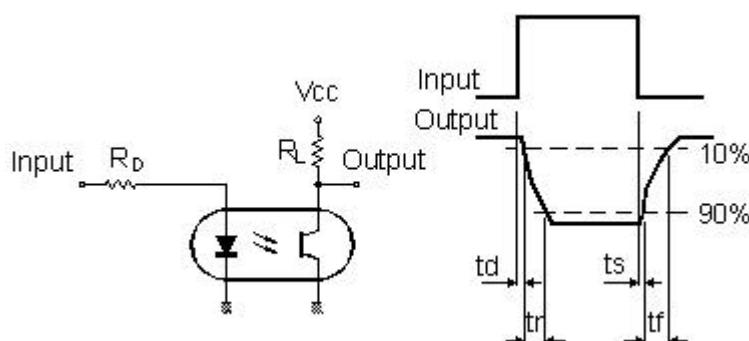
ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ Unless otherwise noted)

| PARAMETER | | MIN | TYP | MAX | UNITS | TEST CONDITION |
|-----------|--|--------------------|------|-----|--------------------------------|---|
| Input | Forward Voltage (V_F) | | 1.15 | 1.5 | V | $I_F = 10\text{mA}$ |
| | Reverse Current (I_R) | | | 10 | μA | $V_R = 6\text{V}$ |
| Output | Collector-emitter Breakdown (BV_{CEO}) (Note 2) | 30 | | | V | $I_C = 1\text{mA}$ |
| | Emitter-collector Breakdown (BV_{ECO}) | 6 | | 50 | V nA | $I_E = 100\mu\text{A}$ $V_{CE} = 10\text{V}$ |
| | Collector-emitter Dark Current (I_{CEO}) | | | | | |
| Coupled | Output Collector Current (I_C) MOC8111 | 2 | | | mA | $10\text{mA } I_F, 10\text{V } V_{CE}$ |
| | MOC8112 | 5 | | | mA | $10\text{mA } I_F, 10\text{V } V_{CE}$ |
| | MOC8113 | 10 | | | mA | $10\text{mA } I_F, 10\text{V } V_{CE}$ |
| | Collector-emitter Saturation Voltage $V_{CE(SAT)}$ | | 0.15 | 0.4 | V | $10\text{mA } I_F, 0.5\text{mA } I_C$ |
| | Input to Output Isolation Voltage V_{ISO} | 5300 7500 | | | V_{RMS} V_{PK} | See note 1 See note 1 |
| | Input-output Isolation Resistance R_{ISO} | 5×10^{10} | | | Ω | $V_{IO} = 500\text{V}$ (note 1) |
| | Response Time (Rise), t_r Response Time (Fall), t_f | | 2 | 2 | μs μs | $V_{CC} = 5\text{V}, I_F = 10\text{mA}$ $R_L = 75\Omega$ (FIG 1) |

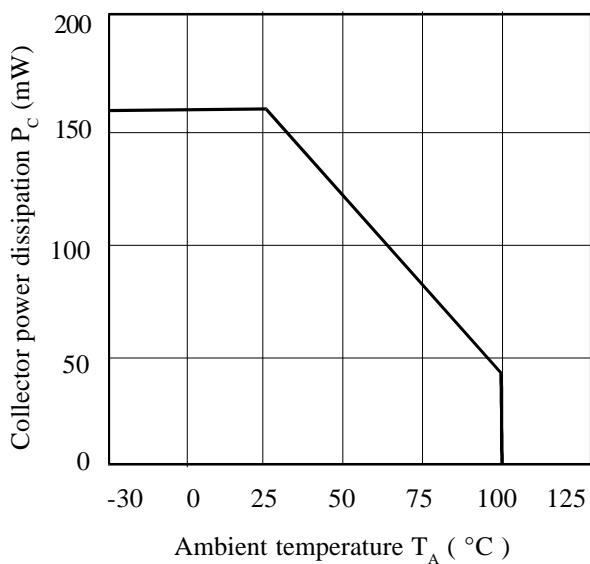
Note 1 Measured with input leads shorted together and output leads shorted together.

Note 2 Special Selections are available on request. Please consult the factory.

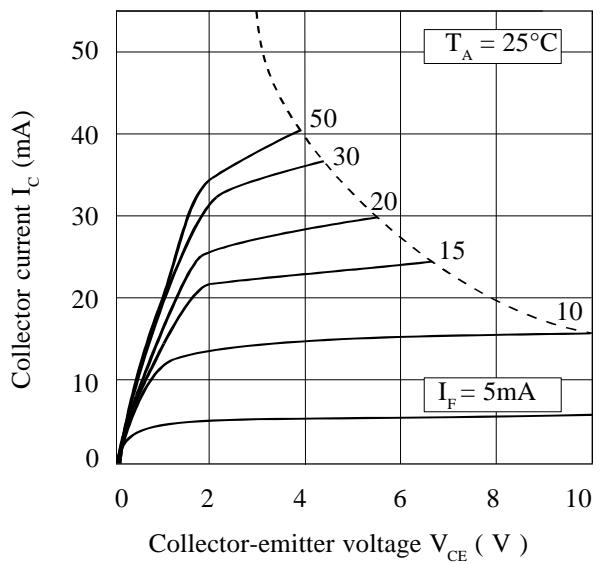
FIGURE1



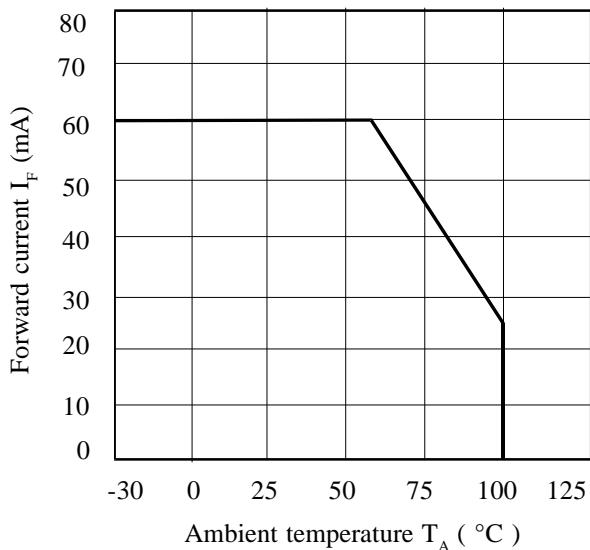
Collector Power Dissipation vs. Ambient Temperature



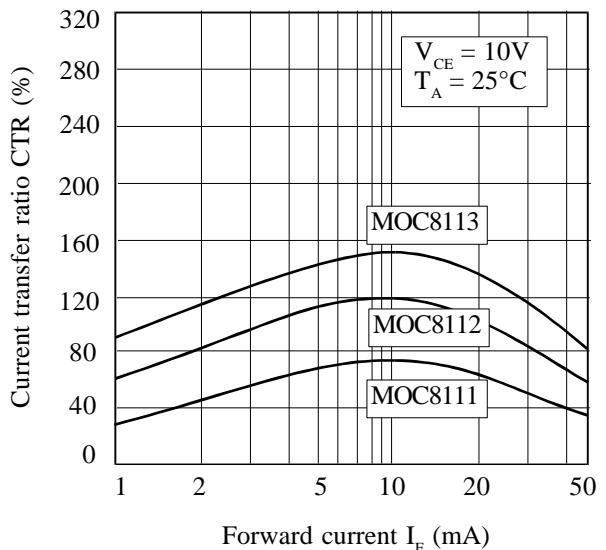
Collector Current vs. Collector-emitter Voltage



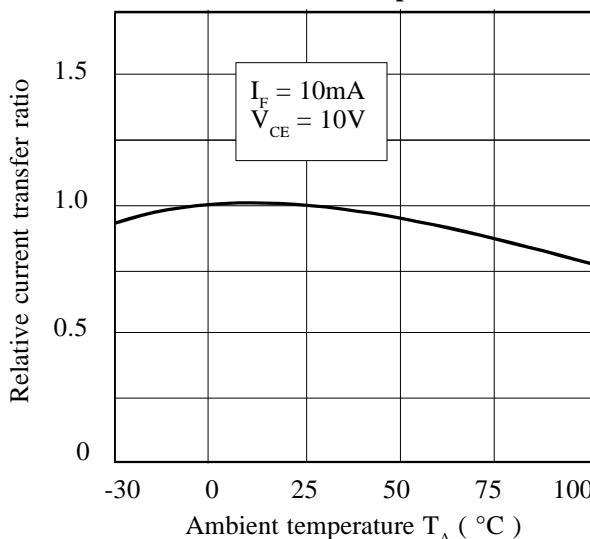
Forward Current vs. Ambient Temperature



Current Transfer Ratio vs. Forward Current



Relative Current Transfer Ratio vs. Ambient Temperature



Collector-emitter Saturation Voltage vs. Ambient Temperature

