

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

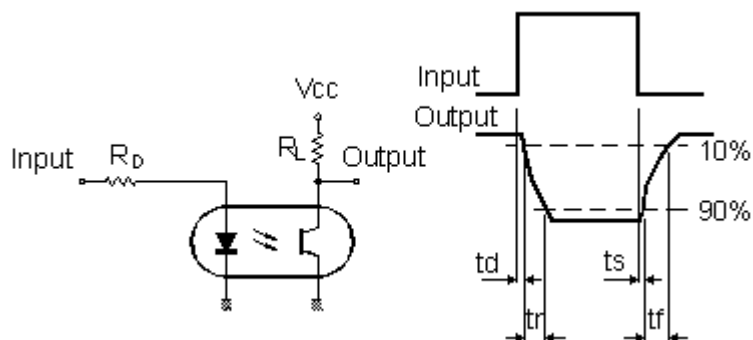
PARAMETER		MIN	TYP	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V_F)	1.0	1.15	1.5	V	$I_F = 10\text{mA}$
	Reverse Current (I_R)			10	μA	$V_R = 6\text{V}$
Output	Collector-emitter Breakdown (BV_{CEO}) (Note 2)	30			V	$I_C = 1\text{mA}$
	Emitter-collector Breakdown (BV_{ECO})	6			V	$I_E = 100\mu\text{A}$
	Collector-emitter Dark Current (I_{CEO})			50	nA	$V_{CE} = 10\text{V}$
Coupled	Output Collector Current (I_C) (Note 3)					
	MOC8101	5.0		8.0	mA	$10\text{mA } I_F, 10\text{V } V_{CE}$
	MOC8102	7.3		11.7	mA	$10\text{mA } I_F, 10\text{V } V_{CE}$
	MOC8103	10.8		17.3	mA	$10\text{mA } I_F, 10\text{V } V_{CE}$
	MOC8104	16		25.6	mA	$10\text{mA } I_F, 10\text{V } V_{CE}$
	MOC8105	6.5		13.3	mA	$10\text{mA } I_F, 10\text{V } V_{CE}$
	Collector-emitter Saturation Voltage $V_{CE(SAT)}$		0.15	0.4	V	$5\text{mA } I_F, 0.5\text{mA } I_C$
	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), tr		2		μs	$V_{CC} = 5\text{V}, I_F = 10\text{mA}$
	Response Time (Fall), tf		2		μs	$R_L = 75\Omega$, (FIG 1)

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

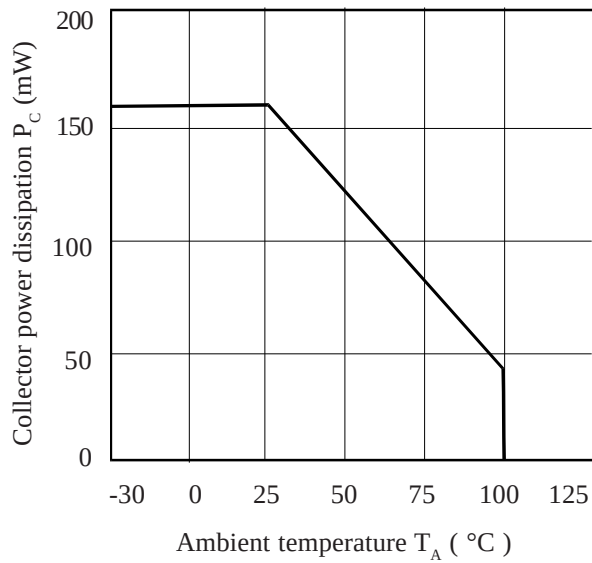
Note 2 Special Selections are available on request. Please consult the factory.

Note 3 Production testing - limits verified with pulse test

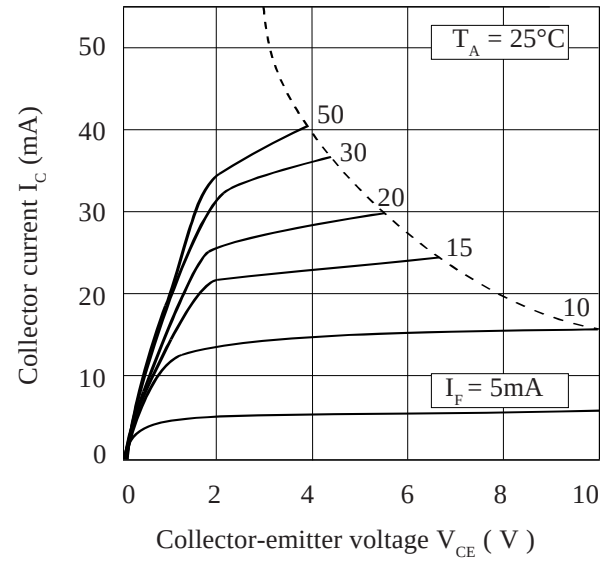
FIGURE1



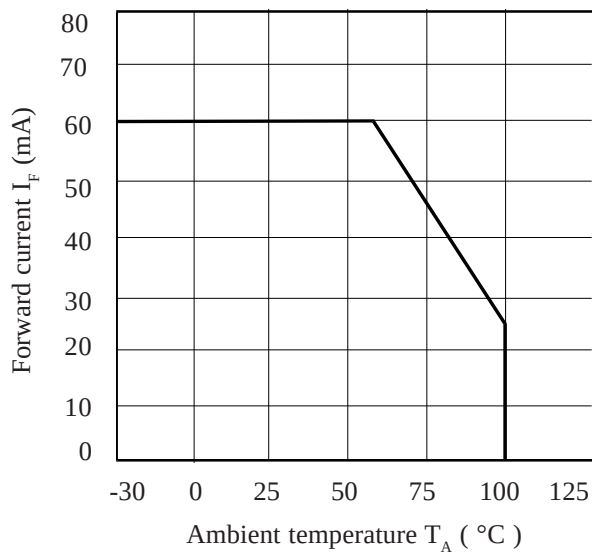
Collector Power Dissipation vs. Ambient Temperature



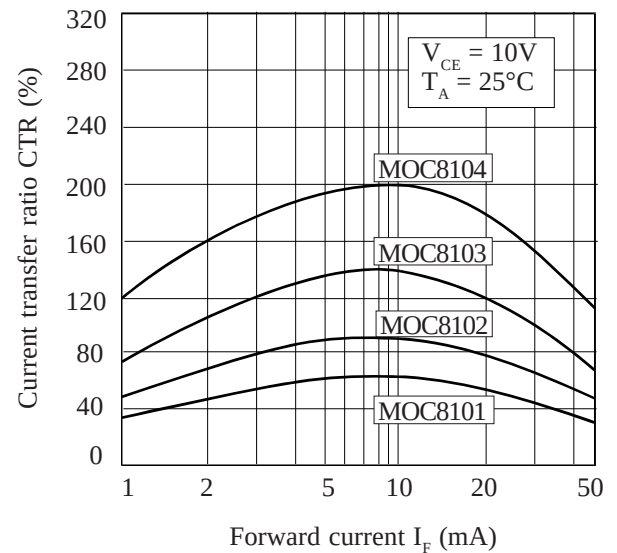
Collector Current vs. Collector-emitter Voltage



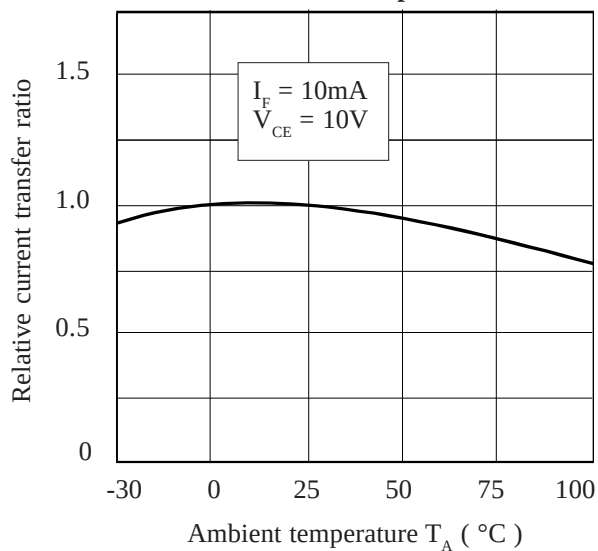
Forward Current vs. Ambient Temperature



Current Transfer Ratio vs. Forward Current



Relative Current Transfer Ratio vs. Ambient Temperature



Collector-emitter Saturation Voltage vs. Ambient Temperature

