

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

PARAMETER		MIN	TYP	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V_F)		1.2	1.4	V	$I_F = 10\text{mA}$
	Reverse Current (I_R)			10	μA	$V_R = 4\text{V}$
Output	Collector-emitter Breakdown (BV_{CEO})	35			V	$I_C = 0.1\text{mA}$
	Emitter-collector Breakdown (BV_{ECO})	6			V	$I_E = 10\mu\text{A}$
	Collector-emitter Dark Current (I_{CEO})			10^{-6}	A	$V_{CE} = 10\text{V}$
Coupled	Output Collector Current (I_C)(Note 2) MOC8020 MOC8021	50 100			mA mA	$10\text{mA } I_F, 5\text{V } V_{CE}$ $10\text{mA } I_F, 5\text{V } V_{CE}$
	Input to Output Isolation Voltage V_{ISO}	5300 7500			V_{RMS} V_{PK}	(note 1) (note 1)
	Input-output Isolation Resistance R_{ISO}		10^{11}		Ω	$V_{IO} = 500\text{V}$ (note 1)
	Response Time (Rise), t_r Response Time (Fall), t_f		60 53		μs μs	$V_{CE} = 2\text{V}, I_C = 10\text{mA},$ $R_L = 100\Omega$, 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.

FIGURE 1

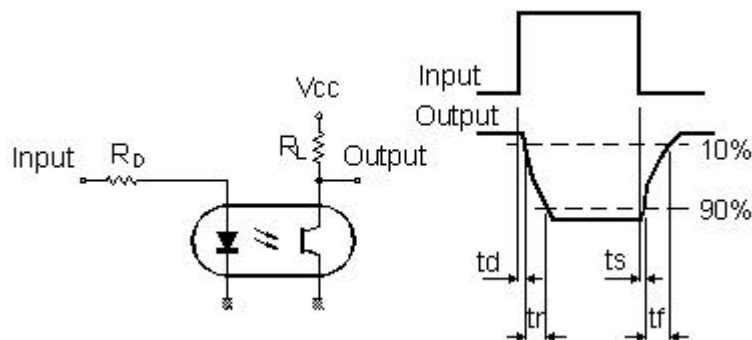


Fig.1 Forward Current vs.
Ambient Temperature

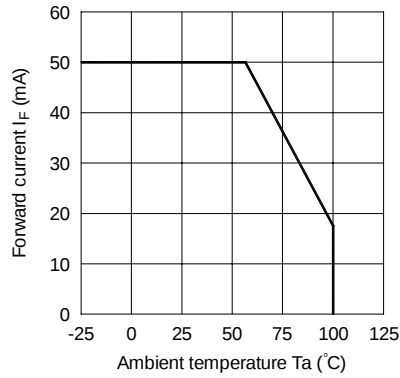


Fig.2 Collector Power Dissipation vs.
Ambient Temperature

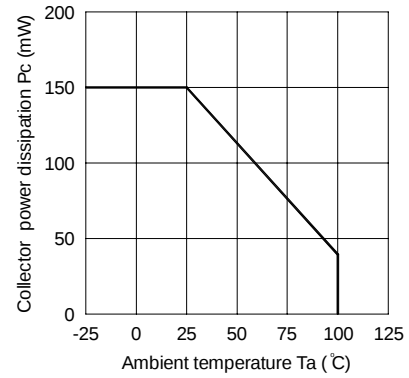


Fig.3 Current Transfer Ratio vs. Forward
Current

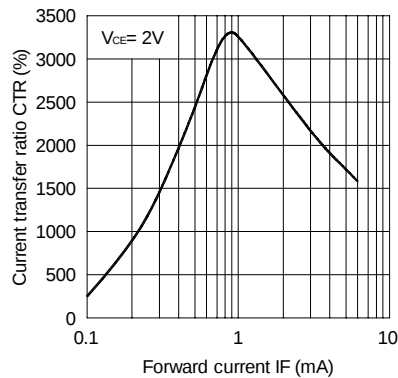


Fig.4 Forward Current vs. Forward
Voltage

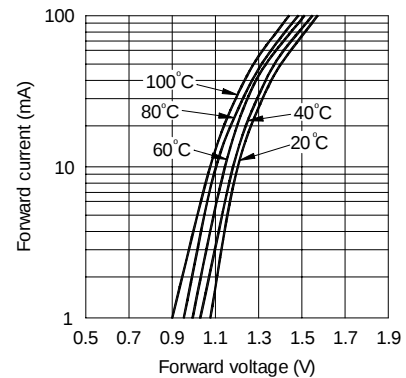


Fig.5 Collector Current vs.
Collector-emitter Voltage

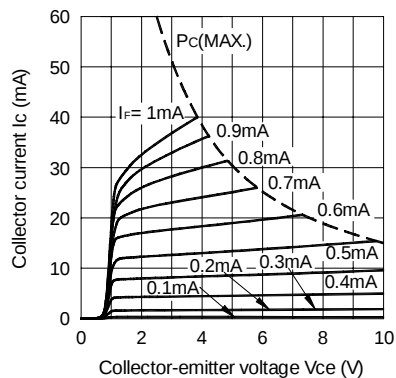


Fig.6 Collector Current vs.
Collector-emitter Voltage

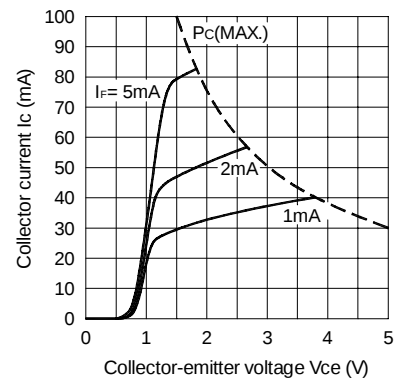


Fig.7 Relative Current Transfer Ratio vs. Ambient Temperature

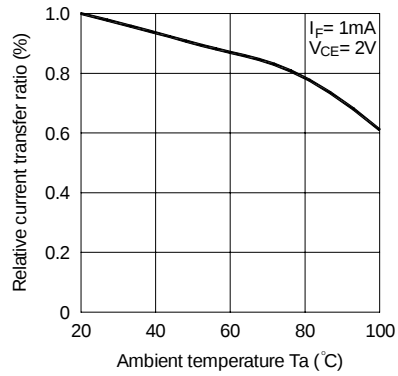


Fig.8 Collector-emitter Saturation Voltage vs. Ambient Temperature

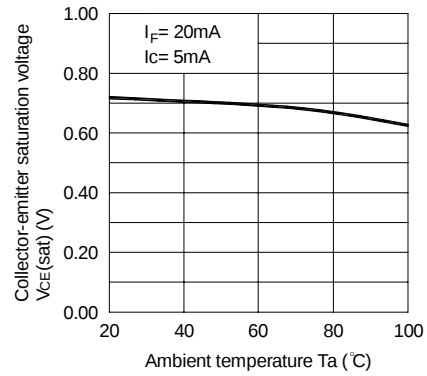


Fig.9 Collector Dark Current vs. Ambient Temperature

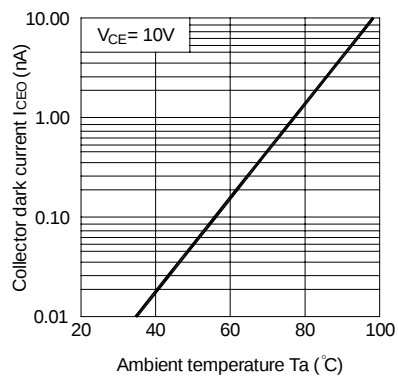


Fig.10 Response Time vs. Load Resistance

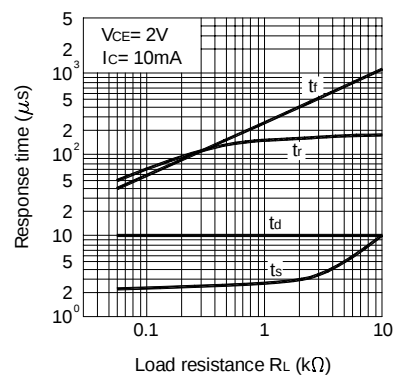
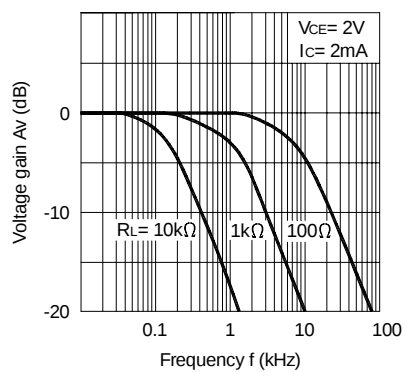
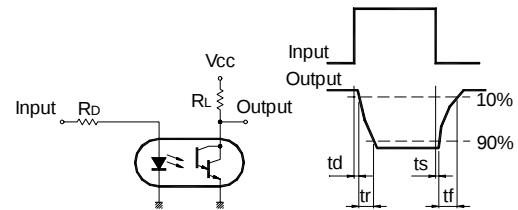


Fig.11 Frequency Response



Test Circuit for Response Time



Test Circuit for Frequency Response

