

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

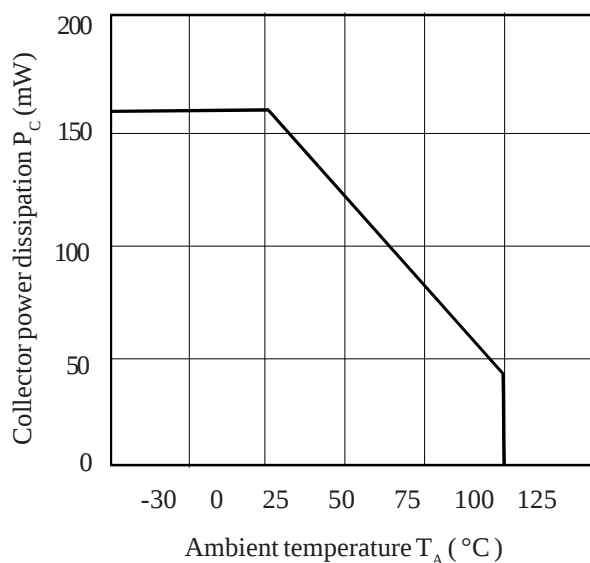
PARAMETER		MIN	TYP	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V_F)	1.0	1.15	1.5	V	$I_F = 10\text{mA}$
	Reverse Voltage (V_R)	6			V	$I_R = 10\mu\text{A}$
	Reverse Current (I_R)			10	μA	$V_R = 6\text{V}$
Output	Collector-emitter Breakdown (BV_{CEO}) (Note 2)	70			V	$I_C = 1\text{mA}$
	Emitter-collector Breakdown (BV_{ECO})	6			V	$I_E = 100\mu\text{A}$
	Collector-emitter Dark Current (I_{CEO})		1.0	50	nA	$V_{CE} = 10\text{V}$
Coupled	Output Collector Current I_C (CTR) (Note 2&3)					
	MOC8106	5.0(50)		15(150)	mA(%)	$10\text{mA } I_F, 10\text{V } V_{CE}$
	MOC8107	10(100)		30(300)	mA(%)	$10\text{mA } I_F, 10\text{V } V_{CE}$
	MOC8108	25(250)		60(600)	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)
	Turn-on Time t_{on}		7.5	20	μs	$V_{CC} = 10\text{V}$,
	Turn-off Time t_{off}		5.7	20	μs	$I_C = 2\text{mA}, R_L = 100\Omega$
	Output Rise Time t_r		3.2		μs	
	Output Fall Time t_f		4.7		μs	

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

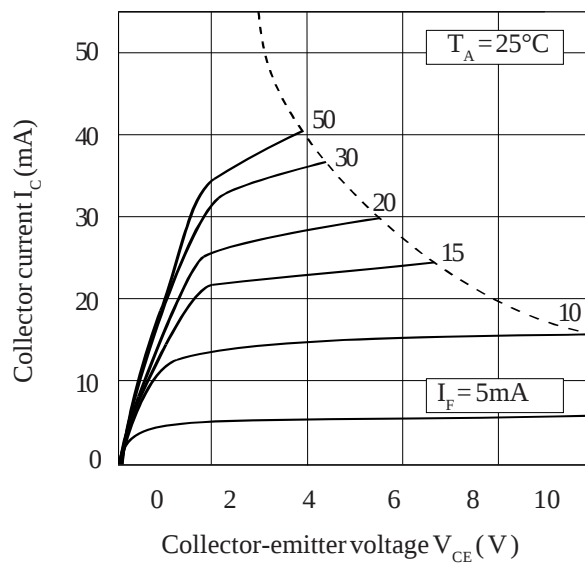
Note 2 Special Selections are available on request. Please consult the factory.

Note 3 Production testing - limits verified with pulse test

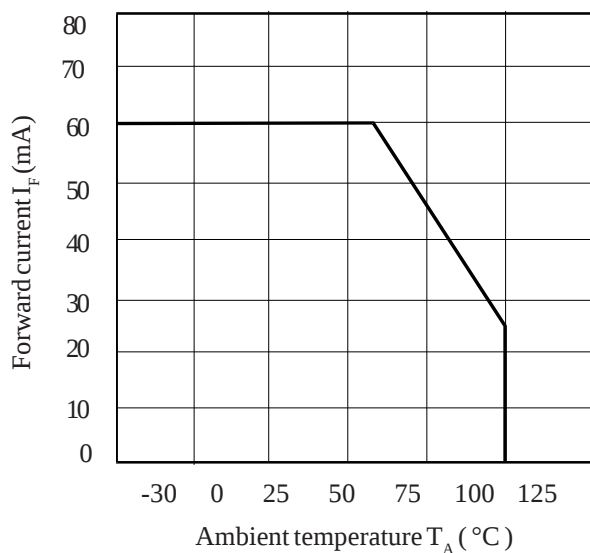
Collector Power Dissipation vs. Ambient Temperature



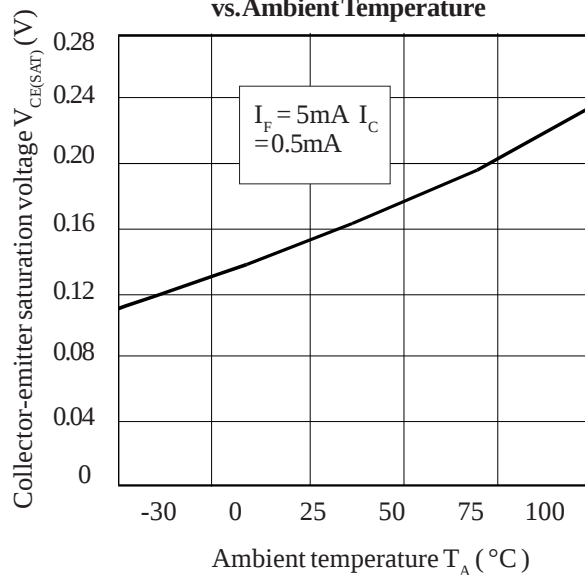
Collector Current vs. Collector-emitter Voltage



Forward Current vs. Ambient Temperature



Collector-emitter Saturation Voltage vs. Ambient Temperature



Relative Current Transfer Ratio vs. Ambient Temperature

