



Table 1. SAFETY AND INSULATION RATINGSAs per DIN EN/IEC 60747–5–5, this optocoupler is suitable for "safe electrical insulation" only within the safety limit data. Compliance with the safety ratings shall be ensured by means of protective circuits.

Table 3. ELECTRICAL CHARACTERISTICS $T_A = 25\,$ C unless otherwise specified

Symbol	Parameter	Test Conditions	Min	Тур	Max	Units
EMITTER				•	•	
V _F	Input Forward Voltage	I _F = 10 mA		1.18	2.00	V
I _R	Reverse Leakage Current	V _R = 3.0 V		0.001	10	μΑ
DETECTOR						
BV _{CEO}	Collector–Emitter Breakdown Voltage (MOC8021M)	$I_C = 1.0 \text{ mA}, I_F = 0$	50	100		V
	(MOC8050M)		80	100		V
BV _{ECO}	Emitter-Collector Breakdown Voltage	$I_E = 100 \mu A, I_F = 0$	5	10		٧
I _{CEO}	Collector-Emitter Dark Current	$V_{CE} = 60 \text{ V}, I_F = 0$			1	μΑ
C _{CE}	Capacitance	V _{CE} = 0 V, f = 1 MHz		8		pF

Table 4. TRANSFER CHARACTERISTICS $T_A = 25$ C unless otherwise specified

TYPICAL CHARACTERISTICS

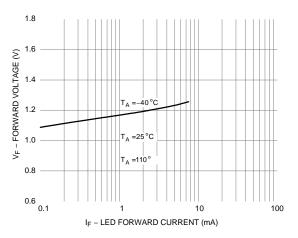


Figure 1. LED Forward Voltage vs. Forward Current

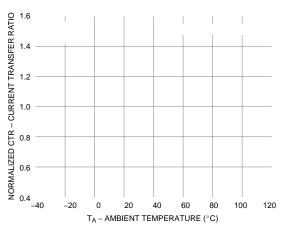


Figure 3. Normalized CTR vs. Ambient Temperature

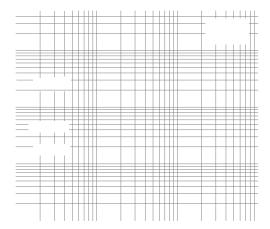


Figure 5. Turn-off Time vs. Forward Current

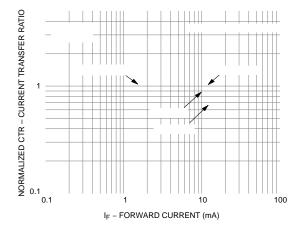


Figure 2. Normalized CTR vs. Forward Current

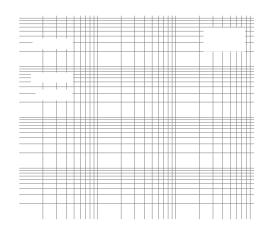


Figure 4. Turn-on Time vs. Forward Current

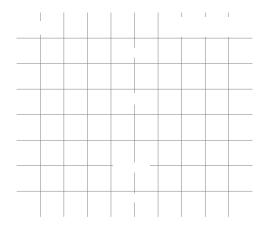


Figure 6. Normalized Collector–Emitter Current vs. Collector–Emitter Voltage

Typical Performance Curves (Continued)

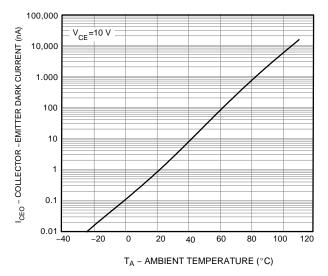


Figure 7. Dark Current vs. Ambient Temperature

Switching Time Test Circuit and Waveform

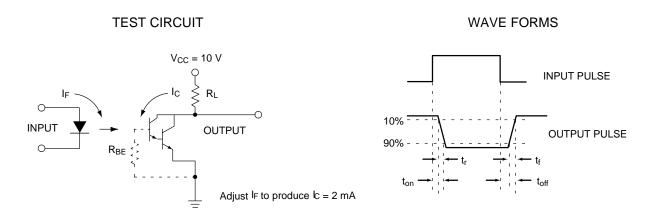


Figure 8. Switching Time Test Circuit and Waveform



ORDERING INFORMATION

Device Order Number	Package	Packing Method [†]

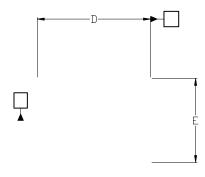
PDIP6 8.51x6.35, 2.54P CASE 646BX ISSUE O

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NOTES:

A) NO STANDARD APPL

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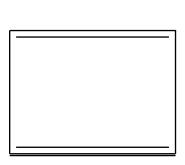


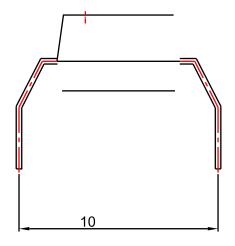
TOP VIEW

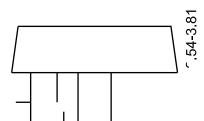


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DATE 31 JUL 2016







NOTES: A) NC

.33

