

Electrical Specifications

Absolute Maximum Ratings

Storage & Operating Temperature Range	-40°C to +80° C
Input Diode	
Input Diode Power Dissipation	100 mW ⁽⁵⁾
Input Diode Forward D.C. Current, $T_A = 25^\circ\text{C}$	50 mA ⁽⁵⁾
Input Diode Peak Forward Pulse Current, $T_A = 25^\circ\text{C}$ (1µs pulse width, 300pps)	1 A
Input Diode Reverse D.C. Voltage, $T_A = 25^\circ\text{C}$	2 V
Phototransistor	
Power Dissipation	100 mW ⁽⁵⁾
Collector - Emitter Voltage	30V
Emitter - Collector Voltage	5.0V

Electrical Characteristics ($T_A = 25^\circ\text{C}$)

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Input Diode (see OP140 or OP240 for additional information)						
V_F	Forward Voltage	-	-	1.70	V	$I_F = 20 \text{ mA}$
I_R	Reverse Current	-	-	100	µA	$V_R = 2 \text{ V}$

Output Phototransistor (see OP550 for additional information)

$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	30	-	-	V	$I_C = 1 \text{ mA}, E_E = 0$
$V_{(BR)ECO}$	Emitter-Collector Breakdown Voltage	5.0	-	-	V	$I_E = 100 \text{ µA}, E_E = 0$
I_{CEO}	Collector Dark Current	-	-	100	nA	$V_{CE} = 10 \text{ V}, I_F = 0, E_E = 0$

Coupled

$V_{CE(SAT)}$	Collector-Emitter Saturation Voltage	-	-	0.40	V	$I_C = 1.50 \text{ mA}, I_F = 20 \text{ mA}$
$I_{C(ON)}$	On-State Collector Current	1.5	-	17.0	mA	$V_{CE} = 10 \text{ V}, I_F = 20 \text{ mA}$

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

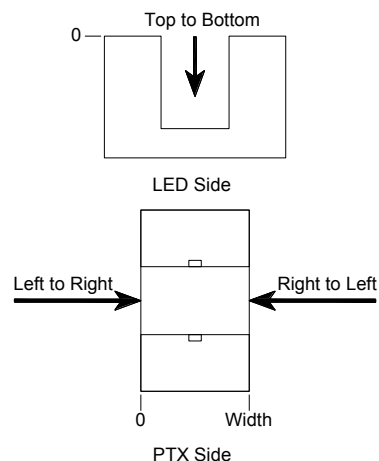
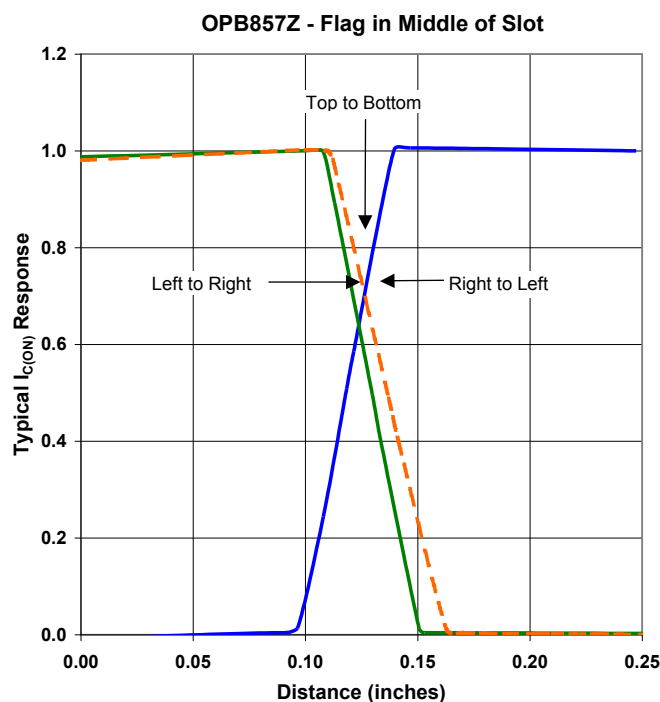
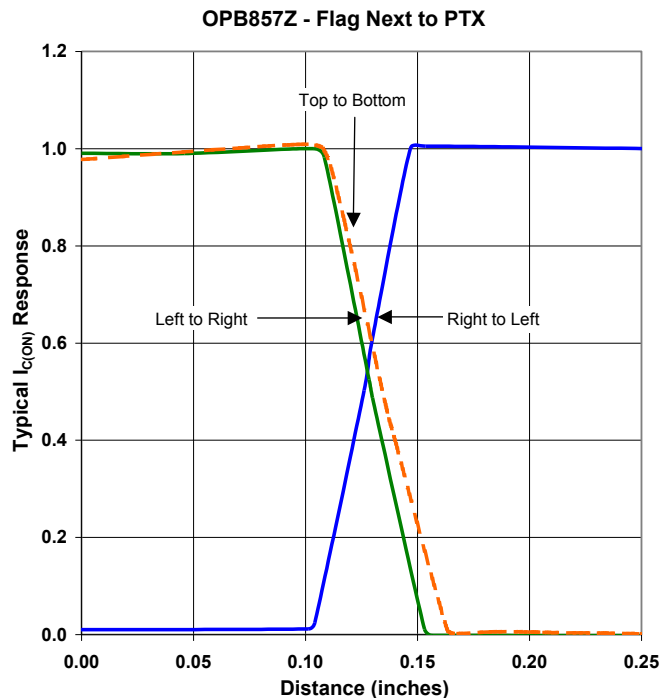
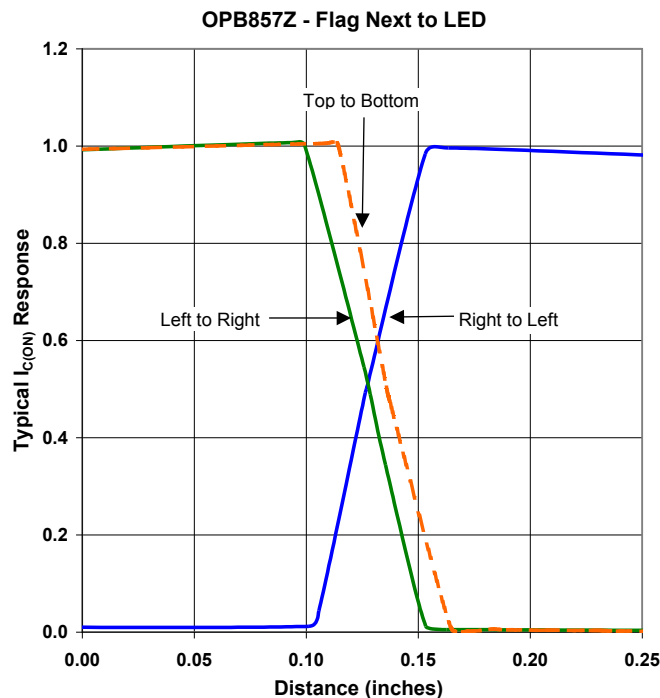
TT Electronics | Optek Technology, Inc.
1645 Wallace Drive, Ste. 130, Carrollton, TX USA 75006 | Ph: +1 972 323 2200
www.ttelectronics.com | sensors@ttelectronics.com

Slotted Optical Switch

OPB857Z



Performance



General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

TT Electronics | Optek Technology, Inc.
1645 Wallace Drive, Ste. 130, Carrollton, TX USA 75006 | Ph: +1 972 323 2200
www.ttelectronics.com | sensors@ttelectronics.com