

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

LED Emitter		Symbol	Min.	Typ.	Max.	Units	Test Conditions
Forward Voltage		V _F	—	1.8	2.1	V	I _F =10 mA
Reverse Current		I _R	—	.01	10	μA	V _R =3.0 V
V _F Temperature Coefficient		ΔV _F /Δ°C	—	−2.2	—	mV/°C	—
Junction Capacitance		C _J	—	TBD	—	pF	V _F =0 V, f=1.0 MHz
Dynamic Resistance		ΔV _F /ΔI _F	—	6.0	—	W	I _F =2.5 mA ΔI _F =1.0 mA
Switching Time IL358/9		t _f	—	40	—	ns	
		t _r	—	40	—	ns	
Detector							
Junction Capacitance		C _J	—	12	—	pF	V _F =0 V, f=1.0 MHz
NEP		—	—	<4 ^{−14}	—	W/√Hz	V _{DET} =0 V
AC Characteristics Photovoltaic Mode							
Frequency Response	IL358/9	BW(−3dB)	—	1.0	—	MHz	I _{P1} =25 μA Modulation current ΔIP1=±6.0 μA
Phase Response		—	—	45	—	Deg.	
Rise Time		—	—	350	—	ns	
Package							
Input-Output Capacitance		C _{IO}	—	1.0	—	pF	V _F =0 V, f=1.0 MHz
Common Mode Capacitance		C _{Cm}	—	0.5	—	pF	V _F =0 V, f=1.0 MHz
Coupled Characteristics							
				K1 at I _F =2.0 mA, V _D =0 V			K3 Bins
				Min.	Typ.	Max.	
IL350				0.003	—	—	A–J
IL351				0.005	—	—	D, E, F, G
IL358				0.008	—	—	C,D, E, F, G, H
IL359				0.008	—	—	E, F

Bin Table

Bin	Min.	Max.
A	0.557	0.626
B	0.620	0.696
C	0.690	0.773
D	0.765	0.859
E	0.851	0.955
F	0.945	1.061
G	1.051	1.181
H	1.169	1.311
I	1.297	1.456
J	1.442	1.618