

OPTOISOLATORS

PHOTOTHYRISTOR OUTPUTS

NTE Type No.	Output Configuration	Diag. No.	Total Device Ratings		Maximum LED Ratings			Maximum Photthyristor Ratings					
			Isolation Voltage Surge (Volts)	Total Power (mW)	Forward Current (mA)	Forward Voltage (Volts)	Reverse Voltage (Volts)	Blocking Voltage (Volts)	Gate Trigger Voltage (Volts)	On Voltage @ I _T (Volts)	Gate Trigger Current (μA)	Turn-On Current (Threshold) (mA)	Holding Current (mA)
			V _{ISO}	P _T	I _F	V _F	V _R	V _{DRM}	V _{GT}	V _{ON}	I _{GT}	I _{FT}	I _{hold}
3046	SCR	152b	3550	290	60	1.5	3	400	1	1.3 @ 100mA	100	14	0.5
3047	TRIAC	152e	7500	330	50	1.5	3	250	—	3 @ 100mA	—	15	100μA Typ
3048	TRIAC	152e	7500	330	50	1.5	3	400	—	3 @ 100mA	—	15	100μA Typ
3049	Zero Crossing TRIAC Driver	152d	7500	330	50	1.5	3	250	—	3 @ 100mA	—	15	100μA Typ
3091	SCR	152b	3535	400	60	1.5	6	400	—	1.3 @ 300mA	—	11	—
3097	Zero Crossing TRIAC Driver	152d	7500	330	50	1.5	6	400	—	3 @ 100mA	—	15	0.2

PHOTOTRANSISTOR OUTPUTS

NTE Type No.	Output Configuration	Diag. No.	Total Device Ratings			Maximum LED Ratings			Maximum Phototransistor Ratings		
			Isolation Voltage Surge (Volts)	Total Power (mW)	DC Current Transfer Ratio* (%)	Forward Current (mA)	Forward Voltage (Volts)	Reverse Voltage (Volts)	Collector to Base Voltage (Volts)	Collector to Emitter Voltage (Volts)	Collector Dark Current (nA)
			V _{ISO}	P _T	C _{TR}	I _F	V _F	V _R	BV _{CBO}	BV _{CEO}	I _C
3040	NPN Transistor	152a	7500	250	20	80	1.5	3	70	30	100
3041	NPN Transistor	152a	7500	300	100	60	1.5	6	70	30	50
3042	NPN Transistor	152a	7500	250	20	60	1.5	3	70	30	50
3043	NPN Transistor	152a	3550	260	70	60	1.5	3	70	80	50
3044	NPN Darlington	152c	7500	250	300	80	2.0	3	—	80	1000
3045	NPN Darlington	152c	7500	250	500	80	2.0	3	—	80	1000
3081	NPN Transistor	179a	6000	250	20	60	1.7	4	—	30	100
3082	NPN Darlington	179b	6000	250	400	60	1.7	4	—	30	100
3083	NPN Darlington	152f	7500	250	200	60	1.5	3	—	30	100
3084	NPN Darlington	152f	7500	250	100	60	1.5	3	—	55	100
3086	NPN Dual Transistor	401a	7500	400	50	60	1.5	3	—	30	100
3088	HV NPN Transistor	152a	7500	300	20	60	1.5	6	300	300 (V _{CEr})	100
3089	AC Input NPN Transistor	152i	7500	250	20	60	1.5	—	70	30	100
3096	Low LED Drive NPN Transistor	152a	7500	300	50 @ I _F = 1mA	60	1.4	6	70	30	25
3098	NPN Transistor	483a	5000	200	100	50	1.3	5	—	55	100

* The DC Current Transfer Ratio (C_{TR}) is the output transistor collector current divided by the LED forward current (I_C/I_F).

See Diagrams, beginning on Page 1-116