

# Opto-Electronic Devices (NEPOC)

## • Light-Emitting Diodes

Color	Package	Type No.	Material	$\lambda_p$ (nm)
Red	TO-18 (Clear Plastic)	SR101C	GaAsP	660
	TO-18 (Clear Glass)	SR102	GaAsP	660
	TO-18 (Red Diffused Plastic)	SR104D	GaAsP	660
	TO-18 (Red Diffused Plastic)	SR104DA	GaAsP	660
	3 $\phi$ Plastic Molded (Clear Plastic)	SR505C, SR615C	GaP, GaAsP (N)	630
	3 $\phi$ Plastic Molded (Red Diffused Plastic)	SR505D, SR615D	GaP, GaAsP (N)	630
	5 $\phi$ Plastic Molded (Clear Plastic)	SR503C, SR513C	GaP	695
	5 $\phi$ Plastic Molded (Red Diffused Plastic)	SR503D, SR513D	GaP	695
	5 $\phi$ Plastic Molded (White Diffused Plastic)	SR503W, SR513W	GaP	695
	5 $\phi$ Plastic Molded (Red Diffused Plastic)	SR603D, SR613D	GaAsP (N)	630
	5 $\phi$ Plastic Molded (Clear Plastic)	SR603C, SR613C	GaAsP (N)	630
	5 $\phi$ Plastic Molded (White Diffused Plastic)	SR603W, SR613W	GaAsP (N)	630
	Green	5 $\phi$ Plastic Molded (Green Clear Plastic)	SG203TA, SG213T	GaP
5 $\phi$ Plastic Molded (Green Diffused Plastic)		SG203DA, SG213D	GaP	565
TO-18 (Green Diffused Plastic)		SG204D	GaP	565
3 $\phi$ Plastic Molded (Green Clear Plastic)		SG205T, SG215T	GaP	565
3 $\phi$ Plastic Molded (Green Diffused Plastic)		SG205D, SG215D	GaP	565
Amber		5 $\phi$ Plastic Molded (Amber Clear Plastic)	SY403TA, SY413T	GaAsP
	5 $\phi$ Plastic Molded (Amber Diffused Plastic)	SY403DA, SY413D	GaAsP	590
	TO-18 (Amber Clear Plastic)	SY404T	GaAsP	590
	TO-18 (Amber Diffused Plastic)	SY404D	GaAsP	590
	3 $\phi$ Plastic Molded (Amber Clear Plastic)	SY405T, SY415T	GaAsP	590
	3 $\phi$ Plastic Molded (Amber Diffused Plastic)	SY405D, SY415D	GaAsP	590
	Infrared	TO-18 (Clear Glass)	SE301A	GaAs

( $\phi$  in mm)

## • Photo-Transistors

Package	Type No.	Features
Small Plastic Molded	PH103 PH104	High sensitivity High speed
TO-18 (Clear Glass)	PT8L	High reliability

## • Photo-Diodes

Type No.	Package
PH301	Metal Can

## • Photo-Couplers

Type No.	Package	Features
PS1001	TO-5	High reliability
PS2010	6-pin DIP	General purpose
PS2021	6-pin DIP	" (Viso $\geq$ 4KVAC)
PS2022	6-pin DIP	" (High CTR)

## • Photo-Interrupters

Type No.	Width of Slit (mm)
PS4001	2.5
PS4003	2.5
PS4005	4.2
PS4007	4.2
PS4008	2.5
PS4009	4.2
PS4010	3.2
PS4011	3.0

# Thyristors

Package		Power Mini Mold	TO-92	MP7 (TO-202AA)						MP25 (TO-220AB)			
$I_T$ (RMS)	A		0.47	4	4	4	4.7	4.7	4.7	8	8	12	
$I_T$ (AV)	A		0.3	2	2.5	2	3	3	3	5.1	5.1	8	
$I_{TSM}$	A		8	20	35	20	65	65	—	80	—	100	
$T_J$	$^{\circ}C$		125	110	125	110	125	125	125	110	125	125	
$V_{DRM}$ $V_{RRM}$	50	V		2P05M						5P05M			
	60		N203YY										
	100		N203A	2P1M		3P1M	3P1MH		5P1M		8P1M		
	200		03P2J	N203B	2P2M	2S2M	3P2M	3P2MH		5P2M		8P2M	
	300			N203C		2S3M							
	400		03P4J	N203D	03P4MGC	2P4M	2V5P4M	2S4M	3P4M	3P4MH	3S4M	5P4M	5S4M
	500				03P5MGC	2P5M	2V5P5M		3P5M			5P5M	
600			03P6MGC	2P6M	2V5P6M		3P6M			5P6M			
$I_{GT}$	mA	0.2	0.2	50 $\mu$ A	0.2	0.1	0.3	5	0.2	30	15	50	15
$t_q$ (TYP.)	$\mu$ s	25	15	100	80	80	15	100	100	5	80	5	80