

SHARP ELEK/ MELEC DIV

10E D

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T-25-15

TRIAC

(Ta=25°C)

Model No.	Internal Connection Diagram	Outline Dimensions	Absolute Maximum Ratings			Electrical Characteristics					
			Repetitive Peak Off-State Voltage V_{DRM} (V)	RMS On-State Current		Gate Trigger Current		Gate Trigger Voltage		Critical Rate of Rise of Off-State Voltage	
				I_T (rms) (A)	Conditions	I_{GT} (mA) MAX.	Conditions	V_{GT} (V) MAX.	Conditions	dv/dt (V/ μ s) TYP.	Conditions
PQ105A1	A	①	400	5	$T_c=102^\circ\text{C}$	30	$V_{DM}=12\text{V}$ $R_L=30\Omega$	1.5	$V_{DM}=12\text{V}$ $R_L=30\Omega$	100	$V_{DM}=\frac{2}{3}V_{DRM}$ $T_J=125^\circ\text{C}$
PQ108A1	A	①	400	8	$T_c=89^\circ\text{C}$	30	$V_{DM}=12\text{V}$ $R_L=30\Omega$	1.5	$V_{DM}=12\text{V}$ $R_L=30\Omega$	100	$V_{DM}=\frac{2}{3}V_{DRM}$ $T_J=125^\circ\text{C}$
PQ205A1	A	①	600	5	$T_c=102^\circ\text{C}$	30	$V_{DM}=12\text{V}$ $R_L=30\Omega$	1.5	$V_{DM}=12\text{V}$ $R_L=30\Omega$	100	$V_{DM}=\frac{2}{3}V_{DRM}$ $T_J=125^\circ\text{C}$
PQ208A1	A	①	600	8	$T_c=89^\circ\text{C}$	30	$V_{DM}=12\text{V}$ $R_L=30\Omega$	1.5	$V_{DM}=12\text{V}$ $R_L=30\Omega$	100	$V_{DM}=\frac{2}{3}V_{DRM}$ $T_J=125^\circ\text{C}$

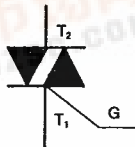
Multi-Channel Triac

(Ta=25°C)

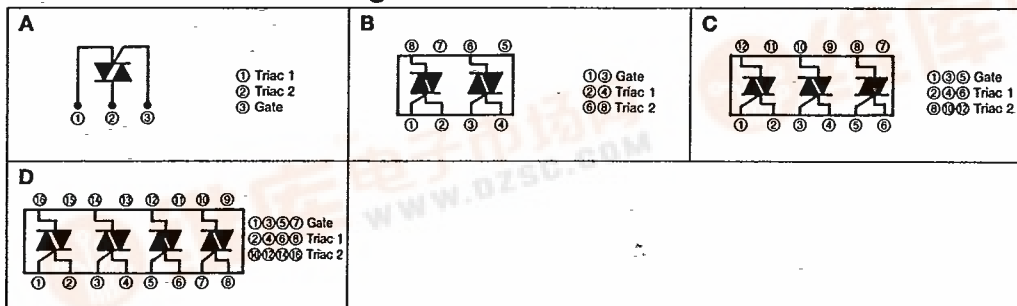
Model No.	Internal Connection Diagram	Outline Dimensions	Absolute Maximum Ratings			Electrical Characteristics					
			Repetitive Peak Off-State Voltage V_{DRM} (V)	RMS On-State Current		Gate Trigger Current *1		Gate Trigger Voltage *1		Critical Rate of Rise of Off-State Voltage	
				I_T (rms) (A) MAX.	Conditions	I_{GT} (mA) MAX.	Conditions	V_{GT} (V) MAX.	Conditions	dv/dt (V/ μ s) MAX.	Conditions
*2 PQ101A12	B	②	400	1.0	$f=50\text{Hz}$ sine full wave 360° applying current	I : 15 II : 15 III : 15	$V_{DM}=12\text{V}$ $R_L=30\Omega$	I : 3 II : 1.5 III : 1.5	$V_{DM}=12\text{V}$ $R_L=30\Omega$	100	$V_{DM}=V_{DRM}$ —
*2 PQ101A13	C	③	400	1.0			$V_{DM}=12\text{V}$ $R_L=30\Omega$		$V_{DM}=12\text{V}$ $R_L=30\Omega$	100	$V_{DM}=V_{DRM}$ —
*2 PQ101A14	D	④	400	1.0			$V_{DM}=12\text{V}$ $R_L=30\Omega$		$V_{DM}=12\text{V}$ $R_L=30\Omega$	100	$V_{DM}=V_{DRM}$ —

*1 I_{GT} and V_{GT} is measured in 4 mode. *2 Under development

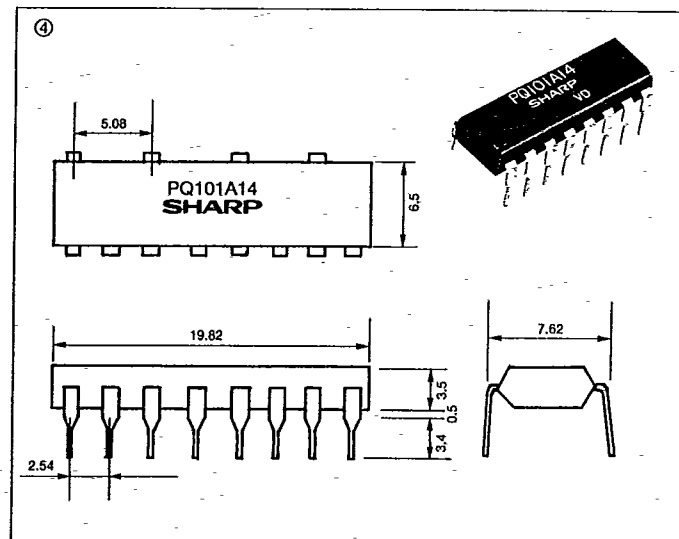
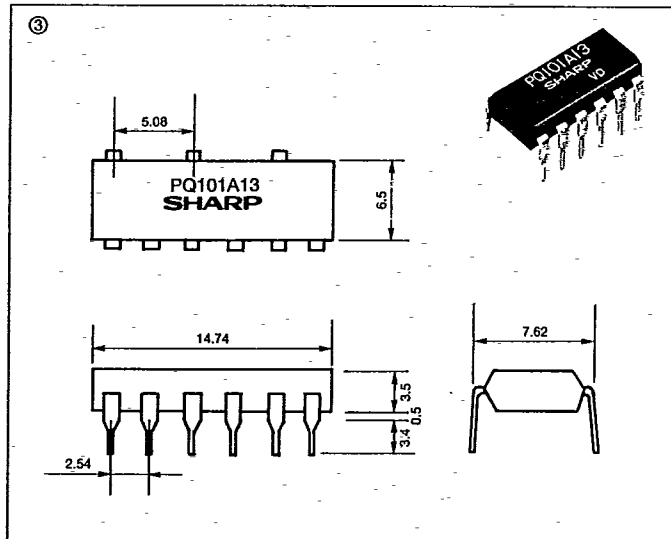
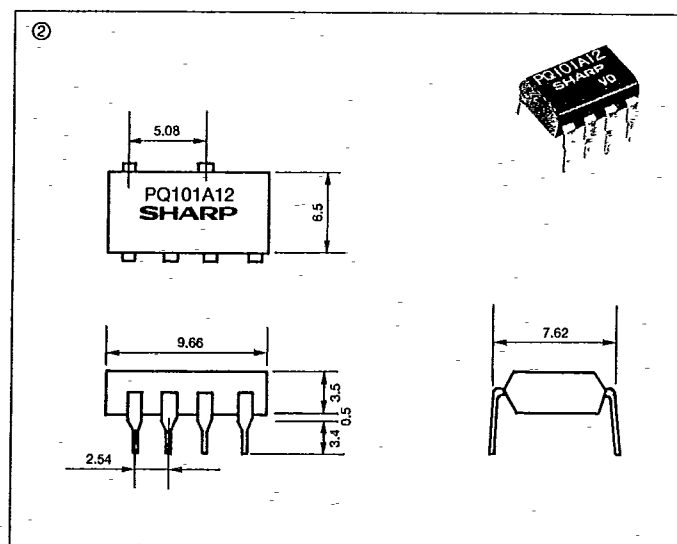
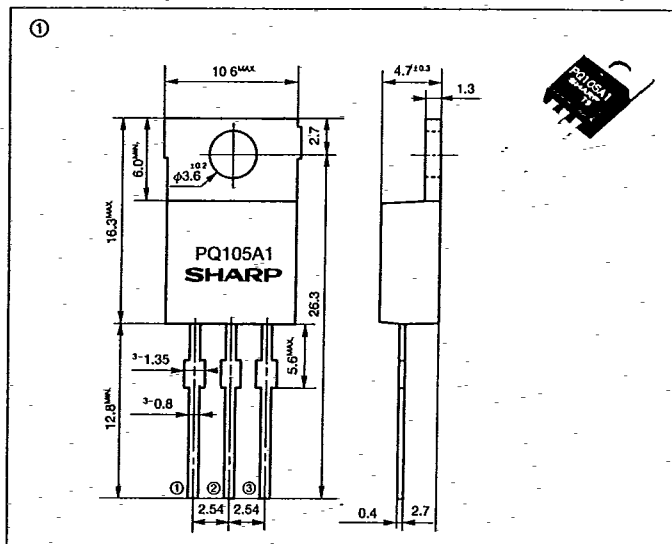
Mode	T_2 Voltage	G Voltage
I	+	+
II	-	-
III	+	-



Internal Connection Diagrams



Outline Dimensions



Unit: mm