

3-2 Triac

Triac

Part Number	Absolute Maximum Ratings															
	V _{DRM}	I _T (RMS)	Conditions T _c (°C)	I _{TSM}	Conditions	P _{GM}	P _G (AV)	I _{GM}	T _j	T _{stg}	I _{DRM1}	Conditions	I _{DRM2}	Conditions	V _{TM}	Conditions I _{TM} (A)
	(V)	(A)		(A)		(W)	(W)	(A)	(°C)	(°C)	(mA) max		(mA) max		(V) max	
TMA34M-L*1	400	3		30		3	0.3	0.5	-40 to +125		0.1		2		1.5	4.5
TMA34S-L	400	3	109	30		3	0.3	0.5	-40 to +125		0.1		2		1.5	4.5
TM341S-R	400	3	109	30		3	0.3	0.5	-40 to +125		0.1		2		1.6	5
TMA54M-L*1	400	5		50		5	0.5	2	-40 to +125		0.1		2		1.5	7
TMA54S-L	400	5	102	50		5	0.5	2	-40 to +125		0.1		2		1.5	7
TM541S-R	400	5	104	50		5	0.5	2	-40 to +125		0.1		2		1.6	7
TMA84M-L*1	400	8		80		5	0.5	2	-40 to +125		0.1		2		1.5	12
TMA84S-L	400	8	92	80		5	0.5	2	-40 to +125		0.1		2		1.5	12
TMA104S-L	400	10	85	100		5	0.5	2	-40 to +125		0.1		2		1.5	14
TM1041S-R	400	10	90	80		5	0.5	2	-40 to +125		0.1		2		1.6	14
TMA124S-L	400	12	77	120		5	0.5	2	-40 to +125		0.1		2		1.5	17
TM1241S-R	400	12	84	110		5	0.5	2	-40 to +125		0.1		2		1.6	16
TMA164S-L	400	16	66	160		5	0.5	2	-40 to +125		0.1		2		1.45	20
TMA164P-L	400	16	108	160		5	0.5	2	-40 to +125		0.1		2		1.4	20
TMA164B-L	400	16	98	160		5	0.5	2	-40 to +125		0.1		2		1.4	20
TMA204S-L	400	20	53	190		5	0.5	2	-40 to +125		0.1		2		1.4	20
TM2541B-L	400	25	84	240		5	0.5	2	-40 to +125		0.1		2		1.3	20
STA221A	400	1.0 × 4	97	10	125°C	1	0.1	0.5	-40 to +125		0.1		1		1.6	1.6
STA203A	400	1.2 × 3	97	10	50Hz	1.2	0.1	0.5	-40 to +125		0.1	25°C	1	125°C	1.6	1.6
TMA36M-L*1	600	3		30	1shot	3	0.3	0.5	-40 to +125		0.1	V _D =V _{DRM}	2	V _D =V _{DRM}	1.5	4.5
TMA36S-L	600	3	109	30		3	0.3	0.5	-40 to +125		0.1		2		1.5	4.5
TM361S-R	600	3	109	30		3	0.3	0.5	-40 to +125		0.1		2		1.6	5
TMA56M-L*1	600	5		50		5	0.5	2	-40 to +125		0.1		2		1.5	7
TMA56S-L	600	5	102	50		5	0.5	2	-40 to +125		0.1		2		1.5	7
TM561S-R	600	5	104	50		5	0.5	2	-40 to +125		0.1		2		1.6	7
TMA86M-L*1	600	8		80		5	0.5	2	-40 to +125		0.1		2		1.5	12
TMA86S-L	600	8	92	80		5	0.5	2	-40 to +125		0.1		2		1.5	12
TMA106S-L	600	10	85	100		5	0.5	2	-40 to +125		0.1		2		1.5	14
TM1061S-R	600	10	90	90		5	0.5	2	-40 to +125		0.1		2		1.6	14
TMA126S-L	600	12	77	120		5	0.5	2	-40 to +125		0.1		2		1.5	17
TM1261S-R	600	12	84	110		5	0.5	2	-40 to +125		0.1		2		1.6	16
TMA166S-L	600	16	66	160		5	0.5	2	-40 to +125		0.1		2		1.45	20
TMA166P-L	600	16	108	160		5	0.5	2	-40 to +125		0.1		2		1.4	20
TMA166B-L	600	16	98	160		5	0.5	2	-40 to +125		0.1		2		1.4	20
TMA206S-L	600	20	53	190		5	0.5	2	-40 to +125		0.1		2		1.4	20
TM2561B-L	600	25	84	240		5	0.5	2	-40 to +125		0.1		2		1.3	20
TM583S-L	800	5	101	45		5	0.5	2	-40 to +125		0.1		2		1.6	7
TM883S-L	800	8	91	80		5	0.5	2	-40 to +125		0.1		2		1.6	10

*1: Under development

Electrical Characteristics (T_J = 25°C, unless otherwise specified)

Electrical Characteristics (T _J = 25°C, unless otherwise specified)																		
	V _{GT}					I _{GT}					V _{GD}		(dv/dt) c			R _{th} (j-c)	Package Type	
	Mode I (T2+, G+) (V) max	Mode II (T2+, G-) (V) max	Mode III (T2-, G-) (V) max	Conditions		Mode I (T2+, G+) (mA) max	Mode II (T2+, G-) (mA) max	Mode III (T2-, G-) (mA) max	Conditions				(V/us) min	Conditions				T _J (°C)
				V _D (V)	R _L (W)				V _D (V)	R _L (Ω)	T _J (°C)	V _O (V)		(dv/dt) c (-A/ms)				
	1.5	1.5	1.5	12	20	15/20	15/20	15/20	12	20	0.2	125	1/2V _{DRM}	5	1.5	125	-	TO220
	1.5	1.5	1.5	12	20	15/20	15/20	15/20	12	20	0.2	125	1/2V _{DRM}	5	1.5	125	4.5	TO220F
	1.8	1.2	1.2	20	40	12	12	12	20	40	0.1	125	1/2V _{DRM}	-			5	TO220F
	1.5	1.5	1.5	12	20	15/20	15/20	15/20	12	20	0.2	125	1/2V _{DRM}	5	2.5	125	-	TO220
	1.5	1.5	1.5	12	20	15/20	15/20	15/20	12	20	0.2	125	1/2V _{DRM}	5	2.5	125	4	TO220F
	1.8	1.2	1.2	20	40	12	12	12	20	40	0.1	125	1/2V _{DRM}	-			4	TO220F
	1.5	1.5	1.5	12	20	20/30	20/30	20/30	12	20	0.2	125	1/2V _{DRM}	10	4	125	-	TO220
	1.5	1.5	1.5	12	20	20/30	20/30	20/30	12	20	0.2	125	1/2V _{DRM}	10	4	125	3.7	TO220F
	1.5	1.5	1.5	12	20	20/30	20/30	20/30	12	20	0.2	125	1/2V _{DRM}	10	5	125	3.6	TO220F
	2	1.2	1.2	20	40	7	7	7	20	40	0.1	125	1/2V _{DRM}	-			3.3	TO220F
	1.5	1.5	1.5	12	20	20/30	20/30	20/30	12	20	0.2	125	1/2V _{DRM}	10	6	125	3.5	TO220F
	1.8	1.2	1.2	20	40	8	8	8	20	40	0.1	125	1/2V _{DRM}	-			3	TO220F
	1.5	1.5	1.5	12	20	20/30	20/30	20/30	12	20	0.2	125	1/2V _{DRM}	10	8	125	3.3	TO220F
	1.5	1.5	1.5	12	20	30	30	30	12	20	0.2	125	1/2V _{DRM}	10	8	125	1.2	TO3P
	1.5	1.5	1.5	12	20	30	30	30	12	20	0.2	125	1/2V _{DRM}	10	8	125	1.8	TO3PF
	1.5	1.5	1.5	12	20	20/30	20/30	20/30	12	20	0.2	125	1/2V _{DRM}	10	10	125	3.2	TO220F
	2	2	2	6	10	30	30	30	6	10	0.2	125	1/2V _{DRM}	10	4	125	1.5	TO3PF
	3.5	1.2	1.2	6	10	3	3	3	6	10	0.2	125	1/2V _{DRM}	1		125	20	SIP10
	3.5	1.2	1.2	6	10	3	3	3	6	10	0.2	125	1/2V _{DRM}	1		125	20	SIP8
	1.5	1.5	1.5	12	20	15/20	15/20	15/20	12	20	0.2	125	1/2V _{DRM}	5	1.5	125	-	TO220
	1.5	1.5	1.5	12	20	15/20	15/20	15/20	12	20	0.2	125	1/2V _{DRM}	5	1.5	125	4.5	TO220F
	1.8	1.2	1.2	20	40	12	12	12	20	40	0.1	125	1/2V _{DRM}	-			5	TO220F
	1.5	1.5	1.5	12	20	15/20	15/20	15/20	12	20	0.2	125	1/2V _{DRM}	5	2.5	125	-	TO220
	1.5	1.5	1.5	12	20	15/20	15/20	15/20	12	20	0.2	125	1/2V _{DRM}	5	2.5	125	4	TO220F
	1.8	1.2	1.2	20	40	12	12	12	20	40	0.1	125	1/2V _{DRM}	-			4	TO220F
	1.5	1.5	1.5	12	20	20/30	20/30	20/30	12	20	0.2	125	1/2V _{DRM}	10	4	125	-	TO220
	1.5	1.5	1.5	12	20	20/30	20/30	20/30	12	20	0.2	125	1/2V _{DRM}	10	4	125	3.7	TO220F
	1.5	1.5	1.5	12	20	20/30	20/30	20/30	12	20	0.2	125	1/2V _{DRM}	10	5	125	3.6	TO220F
	2	1.2	1.2	20	40	7	7	7	20	40	0.1	125	1/2V _{DRM}	-			3.3	TO220F
	1.5	1.5	1.5	12	20	20/30	20/30	20/30	12	20	0.2	125	1/2V _{DRM}	10	6	125	3.5	TO220F
	1.8	1.2	1.2	20	40	8	8	8	20	40	0.1	125	1/2V _{DRM}	-			3	TO220F
	1.5	1.5	1.5	12	20	20/30	20/30	20/30	12	20	0.2	125	1/2V _{DRM}	10	8	125	3.3	TO220F
	1.5	1.5	1.5	12	20	30	30	30	12	20	0.2	125	1/2V _{DRM}	10	8	125	1.2	TO3P
	1.5	1.5	1.5	12	20	30	30	30	12	20	0.2	125	1/2V _{DRM}	10	8	125	1.8	TO3PF
	1.5	1.5	1.5	12	20	20/30	20/30	20/30	12	20	0.2	125	1/2V _{DRM}	10	10	125	3.2	TO220F
	2	2	2	6	10	30	30	30	6	10	0.2	125	1/2V _{DRM}	10	4	125	1.5	TO3PF
	2	2	2	6	10	20	20	20	6	10	0.2	125	1/2V _{DRM}	5	2	125	4	TO220F
	2	2	2	6	10	30	30	30	6	10	0.2	125	1/2V _{DRM}	10	4	125	3.6	TO220F