DIODE & THYRISTORS

LOW POWER IN STUD DESIGN

KEY FEATURES

- ***Hermetic metal cases with glass insulator***
- ***Threaded studs of ISO***
- ***Solder contact***

PRODUCT RANGE

- ***Thyristors: phase control, fast, triacs***
- ***Diodes: rectifier, avalanche, fast recovery***

Fast thyristors (short turn-off time)

Type	V_{DRM}, V_{RRM}	$I_{T(AV)}$ (T_C, °C)	I_{TSM} t_p=10ms	$V_{T(TO)}$ $T_{j\,max}$	r_T $T_{j\,max}$	$(di_T/dt)_{cr}$ $T_{j\,max}$	$(dv_D/dt)_{cr}$ $T_{j\,max}$	t_{gt} (typ)	t_q (typ)	$R_{th(j-c)}$	$T_{j\,max}$	Case	M_d
	V	A	kA	V	mΩ	A/µs	V/µs	µs	µs	°C/W	°C		Nm
TF212-10	400-1400	10(85)	0.15	1.50	32.0	200	100-1000	4.0	20 12.5 - for 400 - 800 V	1.50	125	ST1	0.9-1.1
TF222-16	400-1400	16(85)	0.30	1.50	18.0	200	100-1000			0.90		ST2	1.4-1.8
TF222-20	400-1400	20(85)	0.35	1.40	14.0	200	100-1000			0.80		ST2	1.4-1.8
TF232-25	400-1400	25(85)	0.50	1.40	9.0	200	100-1000			0.80		ST3	5.3-5.7
TF232-32	400-1400	32(85)	0.60	1.40	7.0	200	100-1000			0.62		ST3	5.3-5.7
TF232-40	400-1400	40(85)	0.75	1.40	6.0	200	100-1000			0.50		ST3	5.3-5.7
TF242-50	400-1400	50(85)	1.00	1.60	3.0	200	100-1000			0.40		ST4	9.0-11
TF242-63	400-1400	63(85)	1.10	1.65	2.6	200	100-1000			0.30		ST4	9.0-11

Avalanche diodes (maximal power dissipation in avalanche breakdown mode)

Тип	V_{RRM}	$I_{F(AV)}$ (T_C,°C)	I_{FSM} t_p=10ms	V_{TO} $T_{j\,max}$	r_T $T_{j\,max}$	P_{RSM} t_p=100µs	$R_{th(j-c)}$	$T_{j\,max}$	Case	M_d
	V	A	kA	V	mΩ	kW	°C/W	°C		Nm
DA212-10*	400-1600	10(120)	0.25	1.03	16.20	2.5	2.70	160	SD1	0.9-1.1
DA212-16*	400-1600	16(120)	0.27	0.93	9.15	2.5	1.90		SD1	0.9-1.1
DA212-25*	400-1600	25(120)	0.34	0.83	7.35	2.5	1.25		SD1	0.9-1.1
DA222-32*	400-1600	32(120)	0.46	0.91	5.83	3.0	0.90		SD2	1.4-1.8
DA222-40*	400-1600	40(120)	0.55	0.82	4.38	3.0	0.80		SD2	1.4-1.8
DA232-50*	400-1600	50(120)	1.2	0.97	2.86	5.0	0.60		SD3	5.0-6.2
DA232-63*	400-1600	63(120)	1.3	0.87	2.51	5.0	0.50		SD3	5.0-6.2
DA232-80*	400-1600	80(120)	1.3	0.78	2.12	5.0	0.40		SD3	5.0-6.2

*reverse polarity diodes are available

TYPICAL APPLICATIONS

- ***Industrial AC and DC drives***

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