



PHASE CONTROL THYRISTORS SELECTOR GUIDE

TYPE	IT(AV) at Tc		ITSM (2) 1 pulse current code	I2t for fusing (kA2s)	Junction temperature range (°C)	VDRM /	IDRM	V0	rt	storage temp. (°C)	RthJC (3) (°C/W)	tq typical Tj = Tj max (µs)	ton typical (µs)	di/dt Min repetitive (A/µs)	dV/dt Min Tj = Tj max (V/µs)	Vgt Max 25°C (V)	Igt Max 25°C (mA)	PACKAGE INFORMATION			contact/ flange/ height (mm)	
	max Tj = Tj max (V)	typical Tj = Tj max (mA)				Max force or torque	Style											Outline				
TDK4-30	3070	70	30	52.8@10ms Vr=0	13900@10ms Vr=0	-40 to 125	4500	300	0.991	0.196	40 to 150	0.007	600	td=3µs	150	2000	4	300	80 to 110 kN	Press pak	TD2	100/144/38
TDS4-33	3325	70	33	52.8@10ms Vr=0	13900@10ms Vr=0	-40 to 125	4500	300	0.991	0.196	40 to 150	0.007	600	td=3µs	150	2000	4	300	80 to 110 kN	Press pak	TDS	100/144/27
TDS4-36	3585	55	36	52.8@10ms Vr=0	13900@10ms Vr=0	-40 to 125	4400	300	0.991	0.196	50 to 150	0.006	600	td=3µs	150	2000	4	300	80 to 110 kN	Press pak	TDS	100/144/27
TDS4-34	3475	70	34	67.2@10ms Vr=0	22600@10ms Vr=0	-40 to 125	3600	300	0.914	0.145	50 to 150	0.007	600	td=3µs	100	800	5	300	71.2 to 89 kN	Press pak	TDS	100/144/27
TDK4-34	3430	70	34	65.6@10ms Vr=0	21500@10ms Vr=0	-40 to 125	3600	300	0.914	0.145	40 to 150	0.007	600	td=3µs	100	1000	4	300	80 to 110 kN	Press pak	TD2	100/144/38
TDK4-38	3800	70	38	70@10ms Vr=0	24500@10ms Vr=0	-40 to 125	2400	250	0.954	0.099	50 to 150	0.007	500	td=3µs	100	800	5	300	71.2 to 89 kN	Press pak	TD2	100/144/36
TDS4-44	4400	70	44	82.97@10ms Vr=0	34420@10ms Vr=0	-40 to 125	2400	250	0.884	0.099	50 to 150	0.006	600	td=3µs	100	800	5	300	71.2 to 89 kN	Press pak	TDS	100/144/27
TDS5-50	5000	70	50	84.85@10ms Vr=0	36000@10ms Vr=0	-40 to 125	2000	200	0.848	0.066	50 to 150	0.0065	500	td=4µs	100	500	4	200	71.2 to 89 kN	Press pak	TDS	100/144/27

ORDERING INFORMATION

Select the complete part number you desire from the following table

Type	Voltage (V)		Current (A) IF(AV) code	Turn off tq (µs)	code	Igt max		Leads code
	VRRM	Code				mA	code	
T510	200	02	select the current code in IFAV column	No tq specified	0	100	5	See our standard codes on drawings Other leads are available on request
T500	400	04				120	F	
T610	"	"				150	4	
T600	1000	10				180	G	
T620	"	"				200	3	
T700	2500	25				250	H	
T720	"	"				300	2	
T7H0	4500	45				350	L	
T7S0	"	"				500	1	
T8K7	6500	65						
T820								
T9K7								
T9G0								
TAK7			Other dv/dt selection available on request					
TA20								
TB20								
TBK7								
TBS7								
TD20								
TDS4								
TDK4								
TDS5								

Type	Voltage (V)	
	VRRM	Code
C180	600	M
C350	800	N
C380	1000	P
C390	1200	PB
C391	1400	PD
C430	1600	PM
C431 1	1800	PN
C431 2	2000	L
C440	2200	LB
C441	2400	LD
C450	2600	LM
C451	2800	LN
C702	3000	CP
C781	3200	CB
C782	3400	CD
C783	3600	CM
C784	3800	CN
	4000	DP
	4200	DB
	4400	DD
	4500	DE

Examples :

T500 12 80 05 AW

T50 : T50 case thread 1/2" (stud)
0 : Phase control thyristor
12 : VRRM/VDRM = 1200 V
80 : IF(AV) = 80 A
05 : no tq specified; IGT max=100mA
AW : lead length 163 mm

TA20 18 18 03 KL

TA2 : TA2 case press pak
0 : Phase control thyristor
18 : VRRM/VDRM = 1800 V
18 : IF(AV) = 1800 A
03 : no tq specified; IGT max=200mA
KL : lead length 300 mm with eyelets

C784DD

C784 : TB2 case press pak, Phase control thyristor
DD : VRRM/VDRM=4400V

Notes

- (1) = Available with metric thread on request
 - (2) = 100% reapplied voltage
 - (3) = DC Value
 - (4) = glass metal seal
 - (5) = Available in flat package: T9A / TAA / TBT
- + Old version thyristor
° preliminary data sheet