

Standard recovery Diode

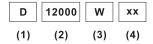
Features

- Medium voltage, high current rectifier diodes
 with slim package for lowest thermal resistance
- 2. Low power dissipation
- 3. Especially suited for water cooling
- 4. Forward selections for paralleling available

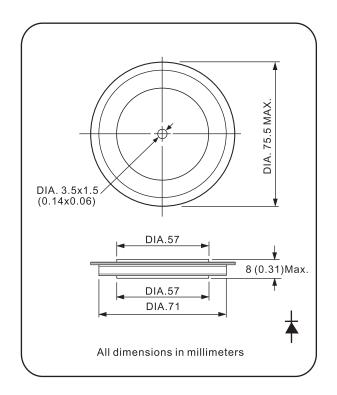
Typical Applications

- 1. Welding
- 2. Electroplating

Ordering code



- (1) stands for disc types diodes
- (2) Maximum average forward current, A
- (3) peakage style
- (4) Voltage code, V (code x $100 = V_{RRM}$)



Electrical Characteristics

Symbol	Parameter	Condition	Value	Unit
I _{F(AV)}	Average forward current	180° half sine wave, 50 Hz Double side cooled, T _C =85°C	12000	А
VRRM	Repetitive peak reverse voltage	t _p =10 ms V _{RSM} =V _{RRM} + 100V	200 to 600	٧
IRRM	Repetitive peak reverse current	V _R =V _{RRM}	80	mA
IFSM	Surge forward current	10ms half sine wave V _R =0.6 V _{RRM}	88000	А
l ² t	I ² t for fusing coordination		36000	KA ² S
V _{FO}	Threshold voltage	Approximation for I _F =8000 to 18000A	0.74	V
r _f	Slope resistance		0.026	mΩ
V _{FM}	Peak on-state voltage	Forward current=12000A, T _J =25°C	0.9	V
R _{th(j-c)}	Thermal resistance(junction to case)	At 180 sine, Double side cooled Clamping force 24.0 KN	0.006	°C/W
R _{th(c-hs)}	Thermal resistance(case to heatsink)		0.012	°C/W
T _{stg}	Storage temperature range		-40 to 170	°C
Тј	Max.junction operating temperature range		-40 to 150	°C
Wt	Approximate weight		230	g
Fm	Mounting force		30 to 35	KN

Fig.1 Maximuam forward voltage drop characteristics

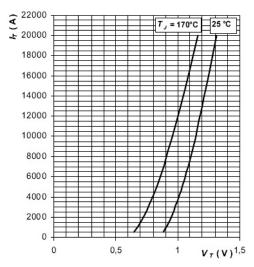


Fig.3 Forward power loss vs. Average forward current sine waveform

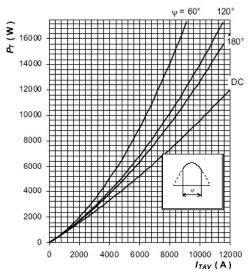


Fig.5 Max, case temperature vs. Ever forward current, sine waveform

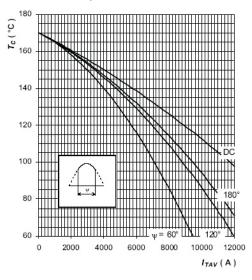


Fig.2 Surge forward current vs pulse length

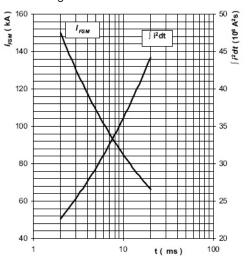


Fig.4 Forward power loss vs. Average forward current, square waveform

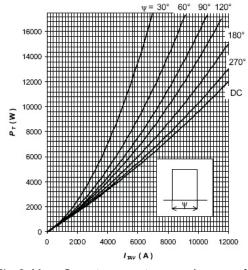


Fig.6 Max. Case tempereture vs. Average forward current, square waveform

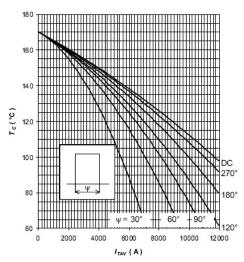


Fig.7 DC-output current with single-phase centre tap

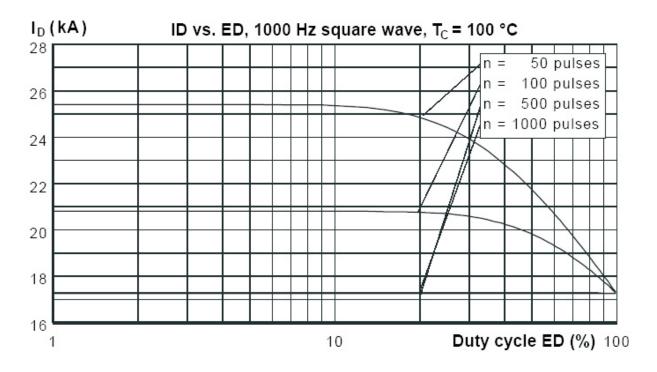


Fig.8 DC-output current with single-phase centre tap

