

Standard recovery Diode

Features

1. 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

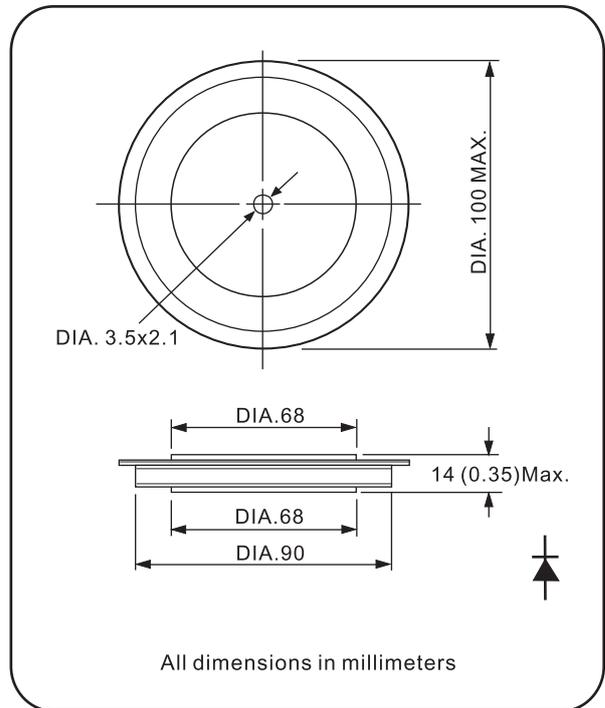
1. Welding
2. Electroplating

Ordering code

D	16000	W	xx
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(1) (2) (3) (4)

- (1) stands for disc types diodes
 (2) Maximum average forward current, A
 (3) package 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, $T_C=85^\circ\text{C}$	16000	A
V_{RRM}	Repetitive peak reverse voltage	$t_p=10\text{ ms}$ $V_{RSM} = V_{RRM} + 100\text{V}$ $T_J=170^\circ\text{C}$	200 to 600	V
I_{RRM}	Repetitive peak reverse current	$V_R = V_{RRM}$	100	mA
I_{FSM}	Surge forward current	Sine wave, 10ms without reverse voltage, $T_J=170^\circ\text{C}$	100	KA
I_t^2	I_t^2 for fusing coordination		50000	KA^2S
V_{FO}	Threshold voltage	$T_J=170^\circ\text{C}$	0.75	V
r_F	Slope resistance		0.03	$\text{m}\Omega$
V_{FM}	Peak on-state voltage	Forward current=16000A, $T_J=25^\circ\text{C}$	1.4	V
$R_{th(j-c)}$	Thermal resistance(junction to case)	Double side cooled	0.0032	$^\circ\text{C}/\text{W}$
T_{stg}	Storage temperature range		-40 to 170	$^\circ\text{C}$
T_j	Operating junction temperature range		-40 to 150	$^\circ\text{C}$
W_t	Approximate weight		560	g
F_m	Mounting force		40 to 80	KN