

## 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

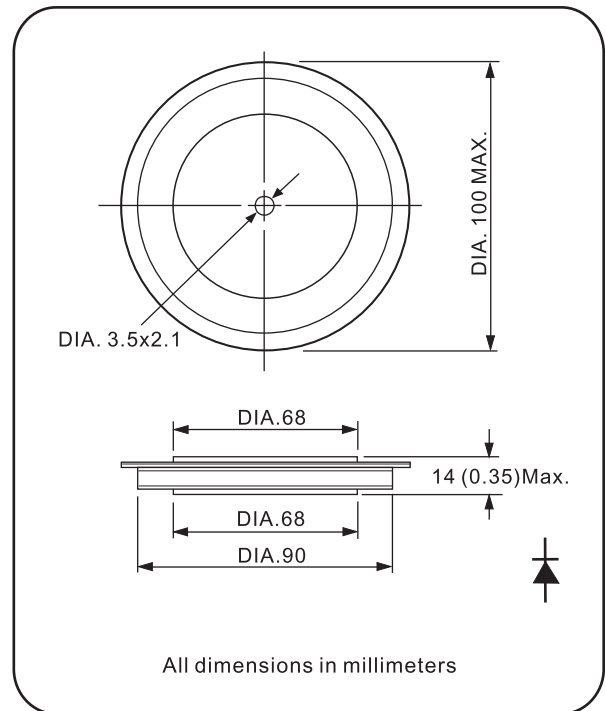
1. Welding
2. Electroplating

Ordering code

<b>D</b>	<b>16000</b>	<b>W</b>	<b>xx</b>
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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 <sup>2</sup> S
$V_{FO}$	Threshold voltage	$T_J=170^\circ\text{C}$	0.75	V
$r_F$	Slope resistance		0.03	mΩ
$V_{FM}$	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	°C/W
$T_{stg}$	Storage temperature range		-40 to 170	°C
$T_j$	Operating junction temperature range		-40 to 150	°C
$W_t$	Approximate weight		560	g
$F_m$	Mounting force		40 to 80	KN