

## STANDARD RECOVERY DIODES

17 H F(R)120

## STANDARD RECOVERY DIODE APPLICATIONS

### Features:

- Wide current range
- High surge current capabilities
- Stud cathode and stud anode version

### Typical Applications:

- Converters
- Power supplies
- Machine tool controls
- Battery charges

### Forward Conduction

Parameter	Symbol	Min.	Max.	Typ.	Units	Conditions
Repetitive peak reverse voltage	$V_{RRM}$			1200	V	
Non repetitive peak reverse voltage	$V_{RSM}$			1300	V	
Max. average forward current	$I_{F(AV)}$			17	A	Sinewave, 180° conduction, $T_c=140^\circ\text{C}$
Max. RMS forward current	$I_{F(RMS)}$			-	A	Nominal value
Max. peak, one-cycle forward, non-repetitive surge current	$I_{FSM}$			295	A	10.0 msec (50Hz), sinusoidal wave-shape, 180° conduction, $T_j = 180^\circ\text{C}$
Maximum $I^2t$ for fusing	$I^2t$			310	$\text{A}^2\text{s}$	
Max. forward voltage drop	$V_{FM}$			1.23	V	$I_{TM} = 48\text{ A}; T_{vj}=25^\circ\text{C}$
Threshold voltage	$V_{F0}$			0.9	V	

### Thermal and Mechanical Specifications

Parameter	Symbol	Min.	Max.	Typ.	Units	Conditions
Operating temperature	$T_j$	-65	+175		$^\circ\text{C}$	
Storage temperature	$T_{stg}$	-65	+200		$^\circ\text{C}$	
Thermal resistance - junction to case	$R_{\Theta(j-c)}$		-	1.6	K/W	
Thermal resistance - case to heatsink	$R_{\Theta(c-s)}$		-	0.5	K/W	
Mounting force	P			1.2	Nm	$\pm 10\%$
Weight	W	-	-	-	g	
Case style				DO-4		See Outline Table

### CASE OUTLINE AND DIMENSIONS.



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Outlines Table

