

# Rectifiers

## Fast Recovery

20-85 Amos

Part Number	V <sub>RRM</sub> (V)	I <sub>F(AV)</sub> @ T <sub>c</sub>		I <sub>FSM</sub> (1)		V <sub>FM</sub> @ $\pi \times I_{F(AV)}$ (V)	R <sub>thJC</sub> DC (°C/W)	t <sub>rr</sub> (2) (ns)	Case Outline Number (6)	Notes	Case Style
		(A)	(°C)	50 Hz (A)	60 Hz (A)						
IRD3899 IRD3900 IRD3901 IRD3902 IRD3903	50 100 200 300 400	20	100	240	250	1.65	0.60	350	R7 A	(3) (5)	DO-203AB (DO-5)
IRD3909 IRD3910 IRD3911 IRD3912 IRD3913	50 100 200 300 400	30	100	285	300	1.80	0.46	350			
40HFL10S02 40HFL20S02 40HFL40S02 40HFL60S02	100 200 400 600	40	75	400	420	1.95	0.60	200			
40HFL10S05 40HFL20S05 40HFL40S05 40HFL60S05 40HFL80S05 40HFL100S05	100 200 400 600 800 1000	40	75	400	420	1.95	0.60	500			
40HFL10S10 40HFL20S10 40HFL40S10 40HFL60S10 40HFL80S10 40HFL100S10	100 200 400 600 800 1000	40	75	400	420	1.95	0.60	1000			
70HFL10S02 70HFL20S02 70HFL40S02 70HFL60S02	100 200 400 600	70	75	700	730	1.85	0.36	200			
70HFL10S05 70HFL20S05 70HFL40S05 70HFL60S05 70HFL80S05 70HFL100S05	100 200 400 600 800 1000	70	75	700	730	1.85	0.36	500			
70HFL10S10 70HFL20S10 70HFL40S10 70HFL60S10 70HFL80S10 70HFL100S10	100 200 400 600 800 1000	70	75	700	730	1.85	0.36	1000			
85HFL10S02 85HFL20S02 85HFL40S02 85HFL60S02	100 200 400 600	85	75	1100	1150	1.75	0.30	200			
85HFL10S05 85HFL20S05 85HFL40S05 85HFL60S05 85HFL80S05 85HFL100S05	100 200 400 600 800 1000	85	75	1100	1150	1.75	0.30	500			
85HFL10S10 85HFL20S10 85HFL40S10 85HFL60S10 85HFL80S10 85HFL100S10	100 200 400 600 800 1000	85	75	1100	1150	1.75	0.30	1000			



(1) 100% V<sub>RRM</sub> reapplied @ T<sub>j</sub> = T<sub>j</sub> max = 125°C.

(2) t<sub>rr</sub> conditions: I<sub>FM</sub> =  $\pi \cdot I_F$  and diP/dt = 25 A/ $\mu$ s.

(3) Cathode-to-stud. For anode-to-stud, add "R" to basic Part number (e.g., 40HFLR10S02, IRD3909R).

(5) Available with metric stud on request; to specify add "M" to the end of number (e.g., 40HFL100S10M).

(6) For case outline drawing see page 169.