

Diodes

Fast Recovery

20-60 Amps

International
IOR Rectifier

Part Number	VRRM (V)	IF(AV) @ Tc		IFSM (1)		VFM @ $\pi \times I_F(AV)$ (V)	RthJC (°C/W)	trr (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	(2) (3) (5) (11)	DO-203AB (DO-5)
IRD3909 IRD3910 IRD3911 IRD3912 IRD3913	50 100 200 300 400	30	100	285	300	1.80	0.46	350			
30HFU-100 30HFU-200 30HFU-300 30HFU-400 30HFU-500 30HFU-600	100 200 300 400 500 600	30	91	400	420	1.45	0.60	60		(3) (5) (7) (8) (10)	
40HFL10S02 40HFL20S02 40HFL40S02 40HFL60S02	100 200 400 600	40	75	400	420	1.95	0.60	200		(2) (3) (5) (11)	
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			
60HFU-100 60HFU-200 60HFU-300 60HFU-400 60HFU-500 60HFU-600	100 200 300 400 500 600	60	82	700	730	1.50	0.36	60		(3) (5) (8) (9) (10)	



- (1) 100% VRRM reapplied @ $T_j = T_{j \text{ max}} = 125^\circ\text{C}$.
 (2) trr conditions: $T_j = 25^\circ\text{C}$, $I_{FM} = \pi \times \text{rated } I_F(AV)$, $di/dt = 25 \text{ A}/\mu\text{s}$.
 (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 0-2.
 (7) VFM conditions: $I_{FM} = 30 \text{ A}_{pk}$, $T_j = 25^\circ\text{C}$.
 (8) $I_F(AV)$ conditions: 180°C conduction, half sine.
 (9) VFM conditions: $I_{FM} = 60 \text{ A}_{pk}$, $T_j = 25^\circ\text{C}$.
 (10) $T_j = 25^\circ\text{C}$, $I_F = 1 \text{ A}$, $-di/dt = 100 \text{ A}/\mu\text{s}$, $V_R = 30 \text{ V}$.
 (11) VFM measured at $T_j = 25^\circ\text{C}$.