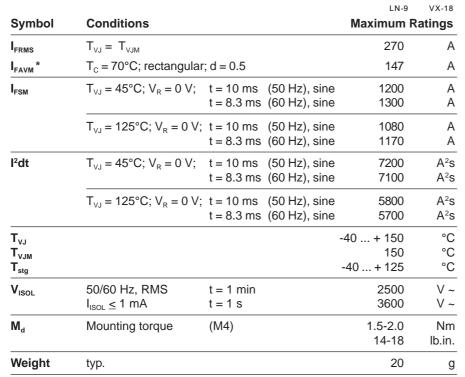


Fast Recovery Epitaxial Diode (FRED)

ECO-PAC 2

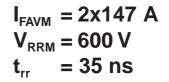
Preliminary Data Sheet

V _{RSM}	V _{RRM}	Тур
600	600	DSEI 2x161-06P



Symbol	nbol Conditions m			haracteristic Values . typ. max.		
I _R	$T_{VJ} = 25^{\circ}C; V_{R} = V_{RRM}$ $T_{VJ} = 25^{\circ}C; V_{R} = 0.8 V_{RRM}$ $T_{VJ} = 125^{\circ}C; V_{R} = 0.8 V_{RRM}$			12 3 80	mA mA mA	
V _F	I _T = 200 A; T _{VJ} = 25°C			1.45	V	
V _{TO}	For power-loss calculations only			0.85 2.7	V mΩ	
R _{thJC}	per Diode per Diode		0.2	0.29	K/W K/W	
I _{RM}	$\begin{split} I_F = & 100 \text{ A}; \ -di_F/d_t = 200 \text{ A/}\mu\text{s}; \ V_R = 100 \text{ V} \\ L & \leq 0.05 \text{ mH}; \ T_{VJ} = 100^{\circ}\text{C} \\ I_F = & 1 \text{ A}; \ -di_F/d_t = 400 \text{ A/}\mu\text{s}; \end{split}$		45		A	
	$V_R = 30 \text{ V}; T_{VJ} = 25^{\circ}\text{C}$		35		ns	
d _s d _A a	Creeping distance on surface Creeping distance in air Max. allowable acceleration	11.2 11.2		50	mm mm m/s²	

 $^{^{\}star}$ I_{FAVM} rating includes reverse blocking losses at T_{VJM}; V_R = 0.8 V_{RRM}; d = 0.5 IXYS reserves the right to change limits, test conditions and dimensions.





Features

- 2 indpendent FRED in 1 package
- Isolation voltage 3600 V~
- · Planar glass passivated chips
- · Low forward voltage drop
- · Leads suitable for PC board soldering
- Very short recovery time
- · Soft recovery behaviour

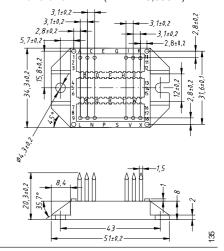
Applications

- Antiparallel diode for high frequency switching devices
- Anti saturation diode
- Snubber diode
- Free wheeling diode in converters and motor control circuits
- Rectifiers in switch mode power supplies (SMPS)
- Inductive heating and melting
- Uninterruptible power supplies (UPS)
- Ultrasonic cleaners and welders

Advantages

- Easy to mount with two screws
- Space and weight savings
- · Improved temperature and power cycling
- · Low noise switching
- · Small and light weight

Dimensions in mm (1 mm = 0.0394")



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Rectifiers category:

Click to view products by IXYS manufacturer:

Other Similar products are found below:

70HFR40 RL252-TP 150KR30A 1N5397 NTE5841 NTE6038 SCF5000 1N4002G 1N4005-TR JANS1N6640US 481235F
RRE02VS6SGTR 067907F MS306 70HF40 T85HFL60S02 US2JFL-TP A1N5404G-G ACGRA4007-HF ACGRB207-HF
CLH03(TE16L,Q) ACGRC307-HF ACEFC304-HF NTE6356 NTE6359 NTE6002 NTE6023 NTE6039 NTE6039 NTE6077 85HFR60 40HFR60
VS-88-7272PBF 70HF120 85HFR80 D126A45C SCF7500 D251N08B SCHJ22.5K SM100 SCPA2 SCH10000 SDHD5K VS12FL100S10 ACGRA4001-HF D1821SH45T PR D1251S45T NTE5990 NTE6358 NTE6162 NTE5850