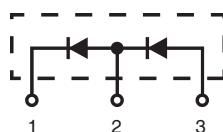


HiPerDynFRED™ Epitaxial Diode
ISOPLUS220™
Electrically Isolated Back Surface

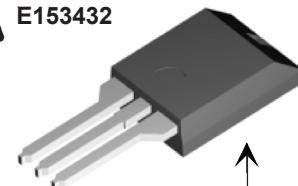
I_{FAV} = 6 A
 V_{RRM} = 600 V
 t_{rr} = 20 ns

V_{RRM} ①	V_{RRM}	Type
V	V	
600	300	DSEE 6-06CC



ISOPLUS 220

E153432



Isolated back surface*

Symbol	Conditions	Maximum Ratings	
I_{FRMS}		20	A
I_{FAVM}	$T_C = 150^\circ\text{C}$; rectangular, $d = 0.5$	6	A
E_{AS}	$T_{VJ} = 25^\circ\text{C}$; non-repetitive $I_{AS} = 0.8 \text{ A}$; $L = 180 \mu\text{H}$	0.1	mJ
I_{AR}	$V_A = 1.5 \cdot V_R$ typ.; $f = 10 \text{ kHz}$; repetitive	0.1	A
T_{VJ}		-40...+175	°C
T_{VJM}		175	°C
T_{stg}		-40...+150	°C
P_{tot}	$T_C = 25^\circ\text{C}$	50	W
V_{ISOL}	50/60 Hz RMS; $I_{ISOL} \leq 1 \text{ mA}$	2500	V~
F_c	Mounting force	11...65 / 2.4...11	N / lb
Weight	typical	2	g

Symbol	Conditions	Characteristic Values	
		typ.	max.
I_R ①	$T_{VJ} = 25^\circ\text{C}$ $V_R = V_{RRM}$ $T_{VJ} = 150^\circ\text{C}$ $V_R = V_{RRM}$	25 0.2	μA mA
V_F ③	$I_F = 10 \text{ A}$; $T_{VJ} = 125^\circ\text{C}$ $T_{VJ} = 25^\circ\text{C}$	1.35 1.8	V V
R_{thJC} R_{thCH}		0.6	K/W K/W
t_{rr}	$I_F = 1 \text{ A}$; $-\frac{dI}{dt} = 50 \text{ A}/\mu\text{s}$; $V_R = 30 \text{ V}$; $T_{VJ} = 25^\circ\text{C}$	20	ns
I_{RM}	$V_R = 100 \text{ V}$; $I_F = 10 \text{ A}$; $-\frac{dI_F}{dt} = 100 \text{ A}/\mu\text{s}$ $T_{VJ} = 100^\circ\text{C}$	2	A

Notes: Data given for $T_{VJ} = 25^\circ\text{C}$ and per diode unless otherwise specified

① Diodes connected in series

② Pulse test: pulse Width = 5 ms, Duty Cycle < 2.0 %

③ Pulse test: pulse Width = 300 μs , Duty Cycle < 2.0 %

IXYS reserves the right to change limits, test conditions and dimensions.

DS98915B(07/03)

