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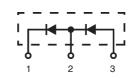
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HiPerDynFRED™ Epitaxial Diode ISOPLUS220™

Electrically Isolated Back Surface

V _{RRM} ①	V _{RRM}	Туре
600	300	DSEE 6-06CC



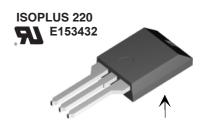
Symbol	Conditions	Maximum Ra	tings
I _{FRMS}		20	A
I _{FAVM}	$T_C = 150$ °C; rectangular, $d = 0.5$	6	Α
E _{AS}	$T_{VJ} = 25$ °C; non-repetitive $I_{AS} = 0.8$ A; L = 180 μ H	0.1	mJ
I _{AR}	$V_A = 1.5 \cdot V_R \text{ typ.}$; f = 10 kHz; repetitive	0.1	A
T _{VJ}		-40+175	°C
T_{VJM}		175	°C
T_{stg}		-40+150	°C
P _{tot}	T _C = 25°C	50	W
V _{ISOL}	50/60 Hz RMS; $I_{ISOL} \le 1 \text{ mA}$	2500	V~
F _c	Mounting force	1165 / 2.411	N / Ib
Weight	typical	2	g

Symbol	Conditions	Chara typ.	acteristic max.	Values
I _R ①	$T_{VJ} = 25^{\circ}C$ $V_{R} = V_{RRM}$ $T_{VJ} = 150^{\circ}C$ $V_{R} = V_{RRM}$		25 0.2	μA mA
V _F ③	$I_F = 10 \text{ A}; \qquad T_{VJ} = 125^{\circ}\text{C}$ $T_{VJ} = 25^{\circ}\text{C}$		1.35 1.8	V V
R _{thJC}	Y	0.6	3.0	K/W K/W
t _{rr}	$I_F = 1 \text{ A}$; -di/dt = 50 A/ μ s; $V_R = 30 \text{ V}$; $T_{VJ} = 25^{\circ}\text{C}$	20		ns
I _{RM}	$V_R = 100 \text{ V}; \ I_F = 10 \text{ A}; -di_F/dt = 100 \text{ A}/\mu\text{s}$ $T_{VJ} = 100^{\circ}\text{C}$	2		A

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

- ① Diodes connected in series
- ② Pulse test: pulse Width = 5 ms, Duty Cycle < 2.0 %
- $\ \, \mbox{\fontfamily}$ Pulse test: pulse Width = 300 $\mbox{\sc ms}$, Duty Cycle < 2.0 $\mbox{\sc \%}$

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



Isolated back surface*

Features

- Silicon chip on Direct-Copper-Bond substrate
 - High power dissipation
- Isolated mounting surface
- 2500V electrical isolation
- Low cathode to tab capacitance (<15pF)
- Planar passivated chips
- ¹ Very short recovery time
- ¹ Extremely low switching losses
- λ Low I_{RM}-values
- Soft recovery behaviour
- Epoxy meets UL 94V-0

Applications

- Antiparallel diode for high frequency switching devices
- Antisaturation diode
- A Snubber diode
- Free wheeling diode in converters and motor control circuits
- Rectifiers in switch mode power supplies (SMPS)
- 1 Inductive heating
- Uninterruptible power supplies (UPS)
- ¹ Ultrasonic cleaners and welders

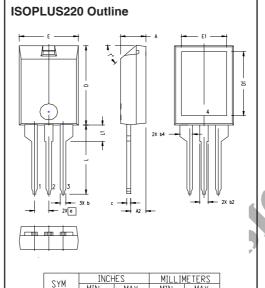
Advantages

- Avalanche voltage rated for reliable operation
- A Soft reverse recovery for low EMI/RFI
- Low I_{RM} reduces:
- Power dissipation within the diode
- Turn-on loss in the commutating switch

Recommended replacement: DSEE8-08CC

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





MYZ	INCHES		MILLIMETERS	
2114	MIN	MAX	MIN	MAX
Α	.157	.197	4.00	5.00
A2	.098	.118	2.50	3.00
b	.035	.051	0.90	1.30
b2	.049	.065	1.25	1.65
b4	.093	.100	2.35	2.55
С	.028	.039	0.70	1.00
D	.591	.630	15.00	16.00
D1	.472	.512	12.00	13.00
E	.394	.433	10.00	11.00
E1	.295	.335	7.50	8.50
е	.100 BASIC		2.55 BASIC	
L	.512	.571	13.00	14.50
L1	.118	.138	3.00	3.50
T.			42.5°	47.5°

NOTE:

- 1. Bottom heatsink (Pin 4) is electrically isolated from Pin 1, 2 or 3.
- 2. Pin connections:
 - 1 Cathode
 - 2 Anode/Cathode
 - 3 Anode