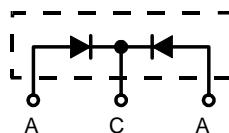


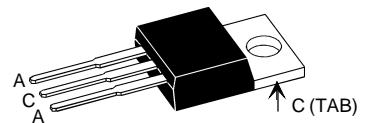
HiPerFRED™ Epitaxial Diode with common cathode and soft recovery

I_{FAV} = 2x 8 A
V_{RRM} = 200 V
t_{rr} = 25 ns

V _{RSM} V	V _{RRM} V	Type
200	200	DSEC 16-02A



TO-220 AB



A = Anode, C = Cathode, TAB = Cathode

Symbol	Conditions	Maximum Ratings	
I _{FRMS}		35	A
I _{FAVM}	T _C = 150°C; rectangular, d = 0.5	8	A
I _{FRM}	t _p < 10 µs; rep. rating, pulse width limited by T _{VJM}	tbd	A
I _{FSM}	T _{VJ} = 45°C; t _p = 10 ms (50 Hz), sine	80	A
E _{AS}	T _{VJ} = 25°C; non-repetitive I _{AS} = 2 A; L = 180 µH	0.5	mJ
I _{AR}	V _A = 1.5·V _R typ.; f = 10 kHz; repetitive	0.2	A
T _{VJ}		-55...+175	°C
T _{VJM}		175	°C
T _{stg}		-55...+150	°C
P _{tot}	T _C = 25°C	60	W
M _d	mounting torque	0.4...0.6	Nm
Weight	typical	2	g

Symbol	Conditions	Characteristic Values	
		typ.	max.
I _R ①	T _{VJ} = 25°C V _R = V _{RRM} T _{VJ} = 150°C V _R = V _{RRM}	50 0.2	µA mA
V _F ②	I _F = 8 A; T _{VJ} = 150°C T _{VJ} = 25°C	0.94 1.30	V V
R _{thJC} R _{thCH}		0.5	K/W K/W
t _{rr}	I _F = 1 A; -di/dt = 50 A/µs; V _R = 30 V; T _{VJ} = 25°C	25	ns
I _{RM}	V _R = 100 V; I _F = 10 A; -di _F /dt = 100 A/µs T _{VJ} = 100°C	4.1	A

Pulse test: ① Pulse Width = 5 ms, Duty Cycle < 2.0 %
② Pulse Width = 300 µs, Duty Cycle < 2.0 %

Data according to IEC 60747 and per diode unless otherwise specified

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