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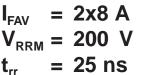
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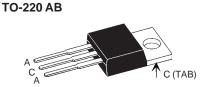


HiPerFRED[™] Epitaxial Diode with common cathode and soft recovery

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

A	с	A
9	Р	9





A = Anode, C = Cathode, TAB = Cathode

Symbol	Conditions	Maximum R	atings
		35	Α
I _{FAVM}	$T_c = 150^{\circ}C$; rectangular, d = 0.5	8	А
I _{FRM}	$t_{\scriptscriptstyle P}$ < 10 $\mu s;$ rep. rating, pulse width limited by $T_{\scriptscriptstyle VJM}$	tbd	A
I _{FSM}	$T_{vJ} = 45^{\circ}C; t_{p} = 10 \text{ ms} (50 \text{ Hz}), \text{ sine}$	80	A
E _{AS}	$T_{vJ} = 25^{\circ}C$; non-repetitive	0.5	mJ
	I _{AS} = 2 A; L = 180 μH		
I _{AR}	$V_A = 1.5 \cdot V_R$ typ.; f = 10 kHz; repetitive	0.2	Α
T _{vj}	-5	5+175	°C
T _{VJM}		175	°C
T_{stg}	-5	5+150	°C
P _{tot}	$T_c = 25^{\circ}C$	60	W
M _d	mounting torque	0.40.6	Nm
Weight	typical	2	g

Symbol	Conditions	Char typ.	acteristic max.	Values
I _R ①	$\begin{array}{l} T_{VJ}=25^{\circ}C V_{R}=V_{RRM} \\ T_{VJ}=150^{\circ}C V_{R}=V_{RRM} \end{array}$		50 0.2	μA mA
V _F 2	$I_F = 8 \text{ A};$ $T_{VJ} = 150^{\circ}\text{C}$ $T_{VJ} = 25^{\circ}\text{C}$		0.94 1.30	V V
R _{thJC} R _{thCH}		0.5	2.5	K/W K/W
t _{rr}	$I_F = 1 \text{ A}; -di/dt = 50 \text{ A}/\mu\text{s};$ $V_R = 30 \text{ V}; \text{ T}_{VJ} = 25^{\circ}\text{C}$	25		ns
I _{RM}	$V_{R} = 100 \text{ V}; \ I_{F} = 10 \text{ A}; -di_{F}/dt = 100 \text{ A}/\mu\text{s}$ $T_{VJ} = 100^{\circ}\text{C}$		4.1	А

Data according to IEC 60747 and per diode unless otherwise specified

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

Features

- International standard package
- Planar passivated chips
- Very short recovery time
- Extremely low switching losses
- Low I_{RM}-values
- Soft recovery behaviour
- Epoxy meets UL 94V-0

Applications

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

Advantages

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

Dimensions see Outlines.pdf

Recommended replacement: DPG20C200PB