

Schottky Barrier Rectifier

INCHANGE SEMICONDUCTOR

TP805C04

FEATURES

- With TO-262(I2PAK) packaging
- · Low leakage current, low power loss, high efficiency
- High frequency operation
- High current capability
- · Low stored charge majority carrier conduction
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching power supply
- High frequency inverters
- Freewheeling diodes
- Reverse battery protection
- Polarity protection applications

PIN:1 Anode 2 Cathode 3 Anode TO-262 package

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
Vrrm Vrwm Vr	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	40	V
IF(AV)	Average Rectified Forward Current @Tc=92°C	20	A
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	120	A
P _D	Total Dissipation	50	W
TJ	Junction Temperature	-40~125	°C
T _{stg}	Storage Temperature Range	-40~125	°C

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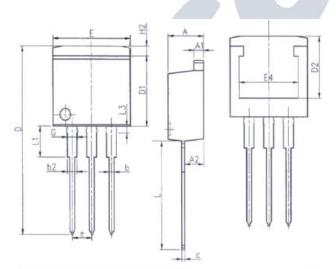
THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.0	°C/W

ELECTRICAL CHARACTERISTICS(Ta=25°C) (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F *	Maximum Instantaneous Forward Voltage	I _F =10A	0.6	V
I _{R*}	Maximum Instantaneous Reverse Current	Vr= V _{rwm;}	15	mA

DIMENSIONAL DRAWING



1	Unit: mm			Unit: mr	n
Symbol	Min.	Max.	Symbol	Min.	Max.
A	4.37	4.77	E	9.90	10.39
A1	1.22	1.42	E4	7.30	-
A2	2.47	2.87	e	2.54BSC	
b	0.70	0.97	G	1.25	1.50
b2	1.17	1.42	H2	-	1.31
с	0.28	0.53	L	13.34	14.10
D	23.20	24.02	L1	3.30	4.06
D1	8.38	8.90	L3	0.95	1.15
D2	6.00	-	12		1.11

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