

## **Schottky Barrier Rectifier**

TP805C04

#### **FEATURES**

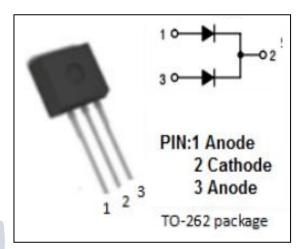
- With TO-262(I2PAK) packaging
- · Low leakage current, low power loss, high efficiency
- · High frequency operation
- High current capability
- · Low stored charge majority carrier conduction
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

#### **APPLICATIONS**





- Freewheeling diodes
- · Reverse battery protection
- Polarity protection applications



### ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	40	V
I <sub>F(AV)</sub>	Average Rectified Forward Current @Tc=92℃	20	А
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	120	А
P <sub>D</sub>	Total Dissipation	50	W
TJ	Junction Temperature	-40~125	$^{\circ}$
T <sub>stg</sub>	Storage Temperature Range	-40~125	°C



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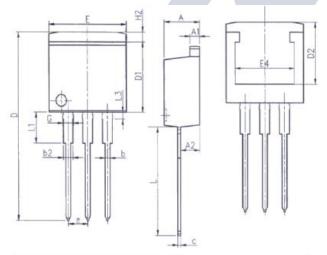
#### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R <sub>th j-c</sub>	Thermal Resistance,Junction to Case	2.0	°C/W

### **ELECTRICAL CHARACTERISTICS(T<sub>a</sub>=25℃)** (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V <sub>F*</sub>	Maximum Instantaneous Forward Voltage	I <sub>F</sub> =10A	0.6	V
I <sub>R*</sub>	Maximum Instantaneous Reverse Current	V <sub>R</sub> = V <sub>RWM;</sub>	15	mA

#### **DIMENSIONAL DRAWING**



3	Unit: mm	
Symbol	Min.	Max.
Α	4. 37	4.77
A1	1.22	1.42
A2	2. 47	2.87
b	0.70	0.97
b2	1.17	1.42
С	0.28	0.53
D	23. 20	24. 02
D1	8. 38	8.90
D2	6.00	-

Symbol	Min.	Max.
Symbol		
E	9.90	10.39
E4	7. 30	-
e	2. 54BSC	
G	1. 25	1.50
H2	-	1. 31
L	13.34	14. 10
L1	3. 30	4.06
L3	0.95	1.15



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