

**Schottky Barrier Rectifier**
**6CWQ10FN**
**FEATURES**

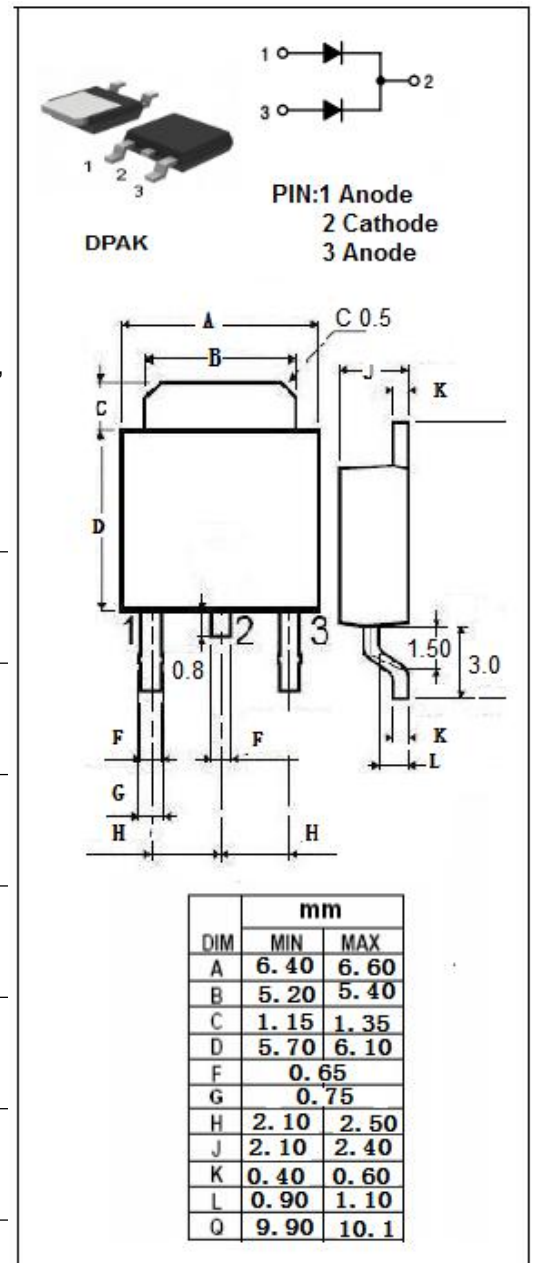
- Low Forward Voltage
- Low Power Loss/High Efficiency
- High Surge Capacity
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

- Typical applications are in disk drives, switching power supplies, converters, free-wheeling diodes, battery charging, and reverse Battery protection.

**ABSOLUTE MAXIMUM RATINGS(T<sub>a</sub>=25°C)**

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>RRM</sub> V <sub>RWM</sub>	Peak Repetitive Reverse Voltage RMS Voltage	100	V
I <sub>F(AV)</sub>	Average Rectified Forward Current	7	A
I <sub>FSM</sub>	Non-repetitive Peak Surge Current	440	A
T <sub>J</sub>	Junction Temperature	-40~150	°C
T <sub>stg</sub>	Storage Temperature Range	-40~150	°C



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**THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	2.35	$^{\circ}C/W$

**ELECTRICAL CHARACTERISTICS** (Pulse Test: Pulse Width=300  $\mu$  s, Duty Cycle  $\leq$  2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
$V_{FM}$	Maximum Instantaneous Forward Voltage	$I_F = 3A ; T_C = 25^{\circ}C$ $I_F = 3A ; T_C = 125^{\circ}C$ $I_F = 6A ; T_C = 25^{\circ}C$ $I_F = 6A ; T_C = 125^{\circ}C$	0.81 0.63 0.96 0.74	V
$I_{RM}$	Maximum Instantaneous Reverse Current	Rated DC Voltage, $T_C = 25^{\circ}C$ Rated DC Voltage, $T_C = 125^{\circ}C$	1 4.9	mA

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