

Schottky Barrier Rectifier
6CWQ10FN
FEATURES

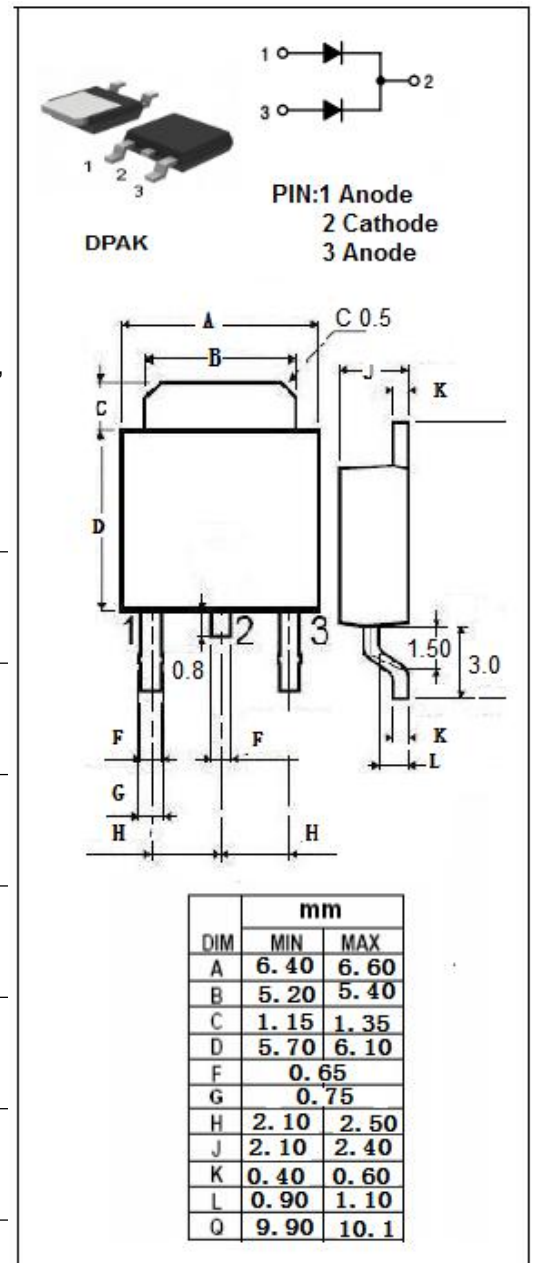
- Low Forward Voltage
- Low Power Loss/High Efficiency
- High Surge Capacity
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{RRM} V_{RWM}	Peak Repetitive Reverse Voltage RMS Voltage	100	V
$I_{F(AV)}$	Average Rectified Forward Current	7	A
I_{FSM}	Non-repetitive Peak Surge Current	440	A
T_J	Junction Temperature	-40~150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-40~150	$^{\circ}\text{C}$



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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 μ 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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