

Schottky Barrier Rectifier

HBR10150CS

FEATURES

- Common Cathode Structure
- Low Power Loss/High Efficiency
- High Operating Junction Temperature
- Guarding for Overvoltage protection, High reliability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

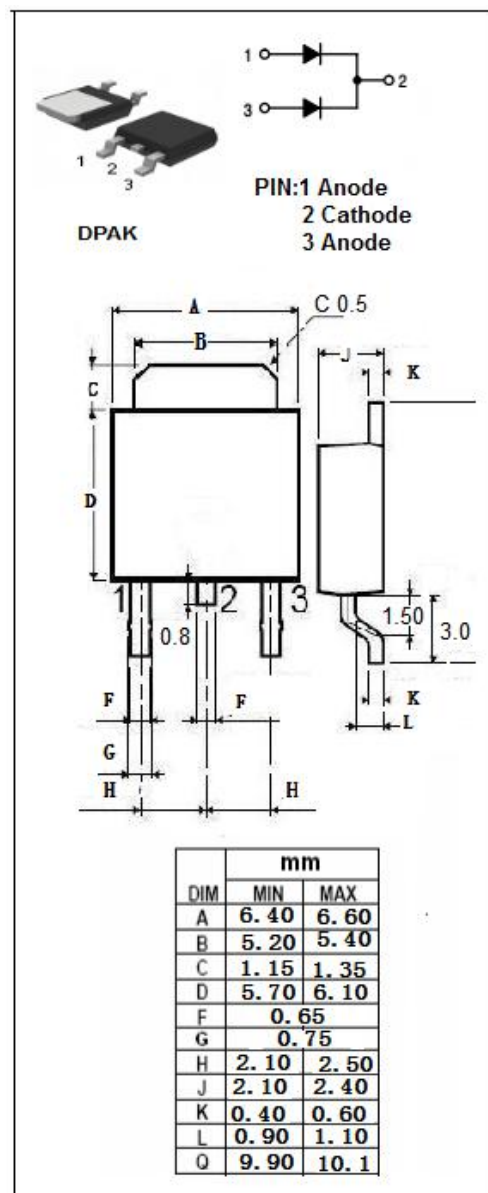
- High Frequency switch power Supply
- Free wheeling diodes and polarity protection applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RMS} V _R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	150	V
I _{F(AV)}	Average Rectified Forward Current (Per Leg) (Total)	5 10	A
I _{FSM}	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	80	A
T _J	Junction Temperature	175	°C
T _{stg}	Storage Temperature Range	-40~150	°C

THERMAL CHARACTERISTICS


SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3.0	°C/W



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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Instantaneous Forward Voltage	I _F = 5A ; T _j = 25°C	0.9	V
		I _F = 5A ; T _j = 125°C	0.72	
		I _F = 10A ; T _j = 25°C	0.95	
		I _F = 10A ; T _j = 125°C	0.8	
I _R	Instantaneous Reverse Current 	V _R = V _{RWM} ; T _j = 25°C	10	uA
		V _R = V _{RWM} ; T _j = 125°C	4.5	mA

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