

SWITCHING TYPE POWER SUPPLY APPLICATIONS.

FEATURES

- Low Profile Surface Mount Package.
- Low Power Loss, High Efficiency.
- For Use in Low Voltage, High Frequency inverters, Free Wheeling, and Polarity Protection Applications.
- Suffix U : Qualified to AEC-Q101.
ex) USFB14-RTK/HU

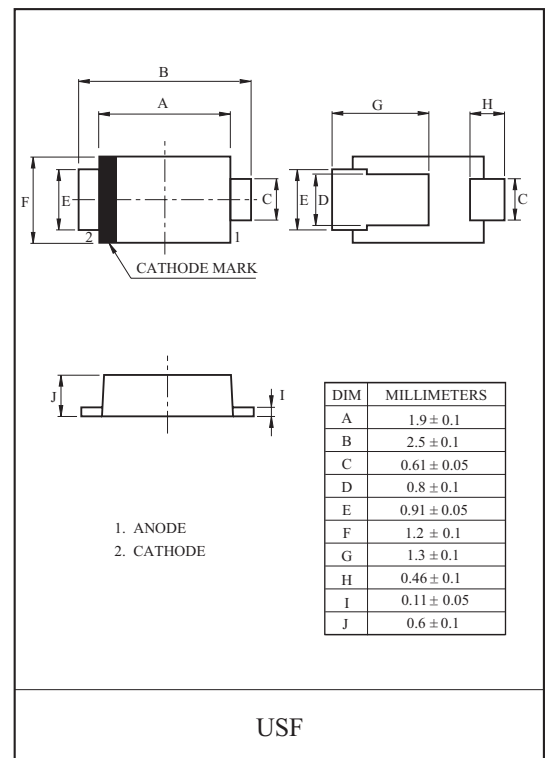
APPLICATION

- Switching Power Supply.
- Reversed Battery Connection Protection.
- DC/DC Converter.
- Cellular Phones.

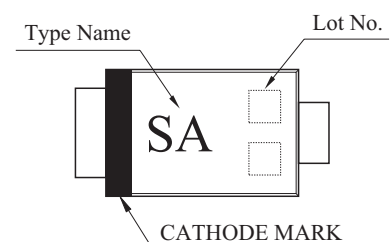
MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Average Output Rectified Current	I_O	1	A
Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz)	I_{FSM}	20	A
Power Dissipation	P_D^*	667	mW
Junction Temperature	T_j	-40 150	°C
Storage Temperature Range	T_{stg}	-40 150	°C

* Mounted on a glass epoxy board (Soldering land : 6mm×6mm)



Marking



ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM}=0.7A$	-	0.50	0.55	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM}=40V$	-	1.5	50	μA

USFB14

