

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.

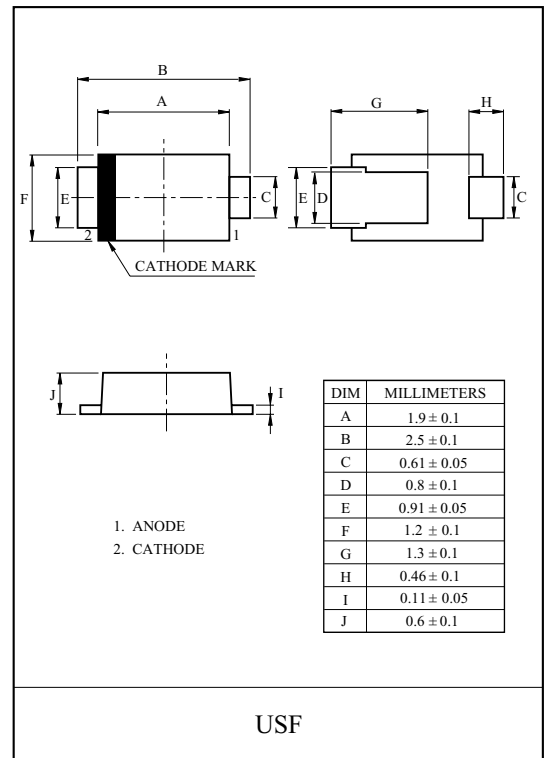
APPLICATION

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

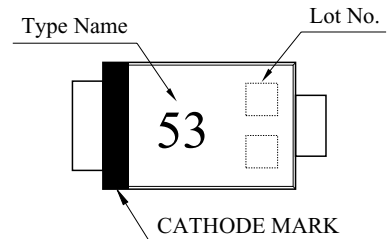
MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Average Output Rectified Current	I_O	0.5	A
Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz)	I_{FSM}	5	A
Power Dissipation	P_D^*	667	mW
Junction Temperature	T_j	-40 ~ 125	°C
Storage Temperature Range	T_{stg}	-40 ~ 125	°C

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



Marking

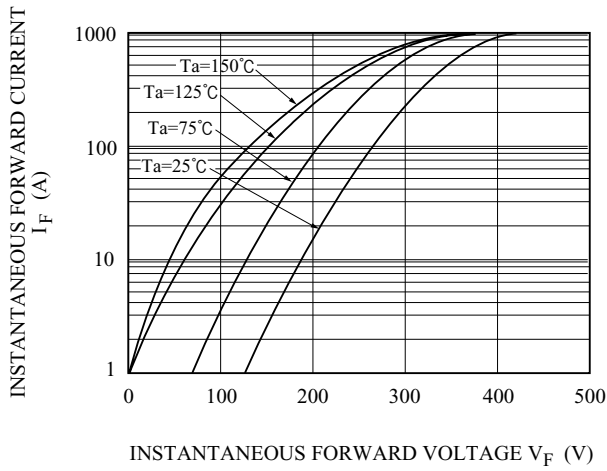


ELECTRICAL CHARACTERISTICS (Ta=25 °C)

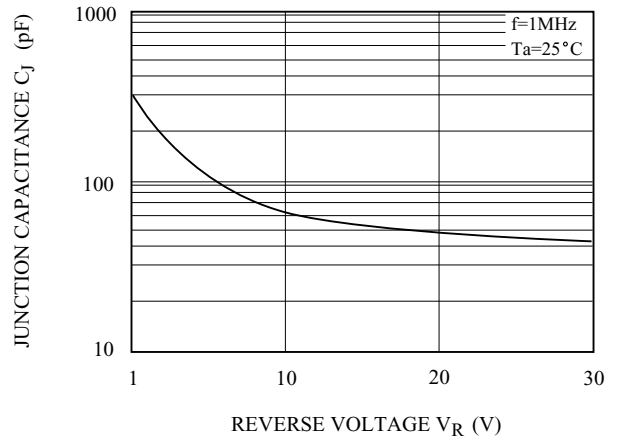
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM}=0.5A$	-	0.35	0.39	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM}=30V$	-	40	200	μA
Junction Capacitance	C_j	$V_R=10V, f=1.0MHz$	-	30	-	pF

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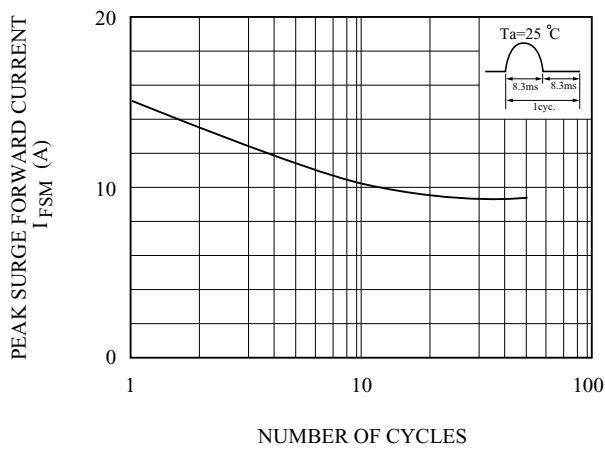
$I_F - V_F$



$C_J - V_R$



SURGE FORWARD CURRENT
(NON - REPETITIVE)



$T_{aMAX} - I_{F(AV)}$

