

SWITCHING TYPE POWER SUPPLY APPLICATIONS.

#### FEATURES

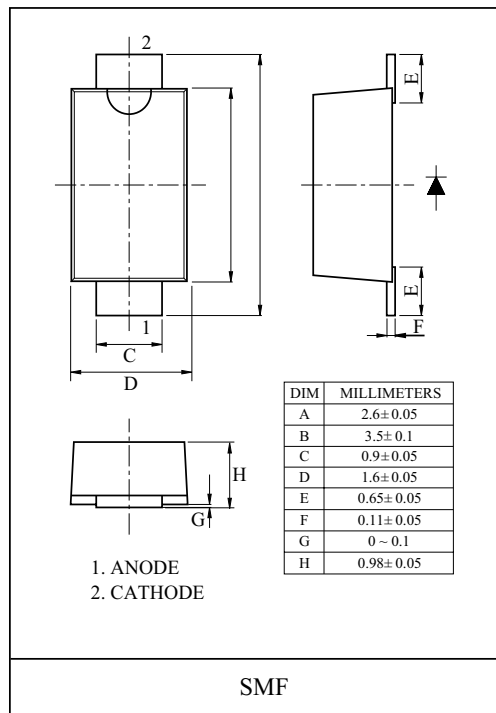
- Low Profile Surface Mount Package.
- Low Power Loss, High Efficiency.
- For Use in Low Voltage, High Frequency inverters, Free Wheeling, and Polarity Protection Applications.

#### APPLICATION

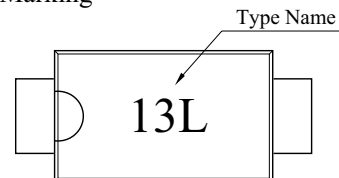
- Switching Power Supply.
- Reversed Battery Connection Protection.
- DC/DC Converter.
- Cellular Phones.

#### MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	30	V
Average Output Rectified Current	$I_O$	1	A
Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz)	$I_{FSM}$	22	A
Junction Temperature	$T_j$	-40 ~ 125	°C
Storage Temperature Range	$T_{stg}$	-40 ~ 125	°C



#### Marking



#### ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	$V_{FM}$	$I_{FM}=1.0A$	-	-	0.36	V
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM}=\text{Rated}$	-	-	1.0	mA
Thermal Resistance	$R_{th(j-l)}$	Junction to lead	-	-	20	°C/W
	$R_{th(j-a)}$	Junction to ambient (on a grass-epoxy board)	-	-	140	

# SMFB13L

