

SWITCHING TYPE POWER SUPPLY APPLICATIONS.

FEATURES

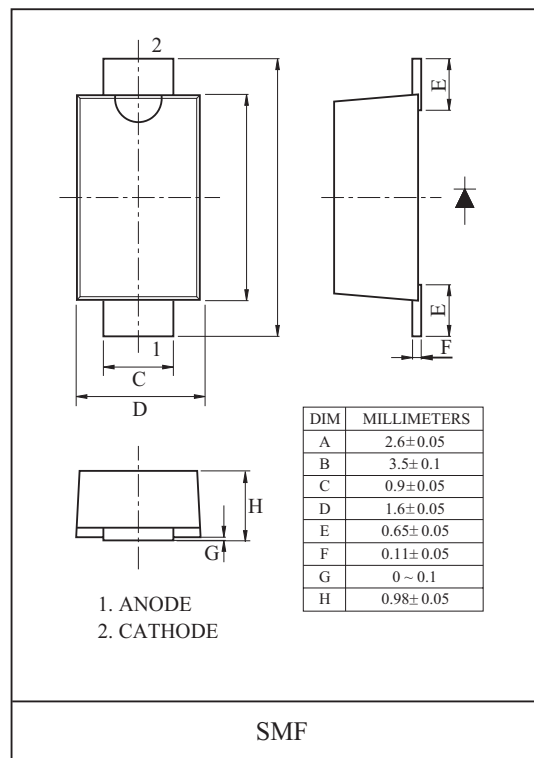
- Low Profile Surface Mount Package.
- Low Power Loss, High Efficiency.
- Low Forward Voltage : $V_{FM}=0.36V(\text{Max.})$

APPLICATION

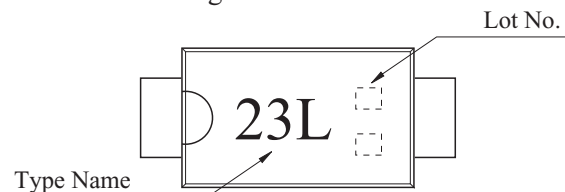
- Switching Power Supply.
- Reversed Battery Connection Protection.
- DC/DC Converter.
- Cellular Phones.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Average Output Rectified Current	I_O	1.5	A
Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz)	I_{FSM}	33	A
Junction Temperature	T_j	$-40 \sim 125$	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-40 \sim 125$	$^\circ\text{C}$



Marking



ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM}=1.5A$	-	-	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	$^\circ\text{C/W}$
	$R_{th(j-a)}$	Junction to ambient (on a grass-epoxy board)	-	-	140	

SMFB23L

