

SWITCHING TYPE POWER SUPPLY APPLICATIONS.

FEATURES

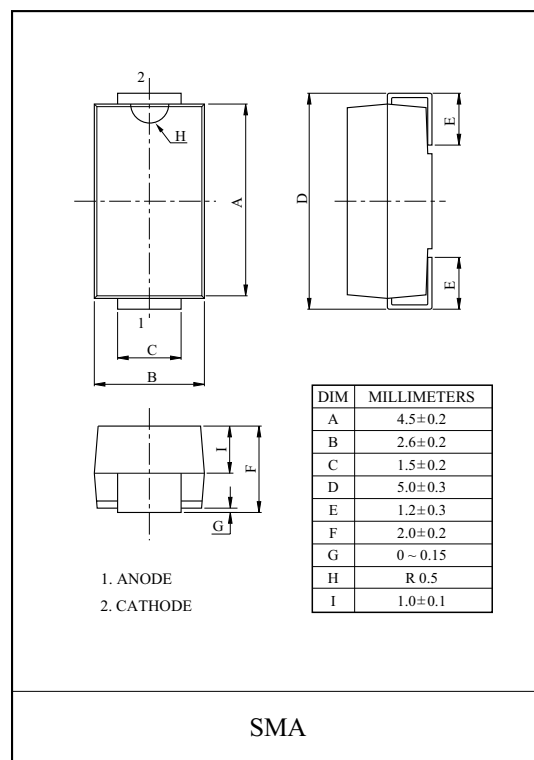
- Ultra-Fast Recovery Time for High Efficiency.
- Low Profile Surface Mount Package.
- Low Forward Voltage Drop, High current Capability, and Low Power Loss.

APPLICATION

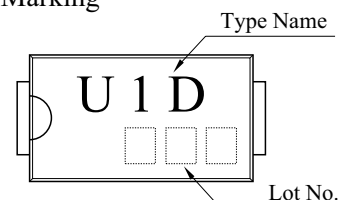
- Switching Power Supply.
- DC/DC Converter.
- Home Appliances, Office Equipment.
- Telecommunication, Factory Automation.

MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	200	V
Average Output Rectitified Current	I_O	1	A
Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz)	I_{FSM}	33	A
Junction Temperature	T_j	-40 ~ 150	℃
Storage Temperature Range	T_{stg}	-40 ~ 150	℃



Marking



ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM}=1.0A$	-	-	0.98	V
Repetitive Peak Reverse Current	I_{RRM}	V_{RRM} =Rated	-	-	1	μA
Reverse Recovery Time	t_{rr}	$I_F=100mA$, $I_R=200mA$	-	-	35	ns
Thermal Resistance	$R_{th(j-l)}$	Junction to lead	-	-	23	℃/W
	$R_{th(j-a)}$	Junction to ambient (on alumina substrate)	-	-	108	℃/W

SMAU1D

