

SWITCHING TYPE POWER SUPPLY APPLICATIONS.

FEATURES

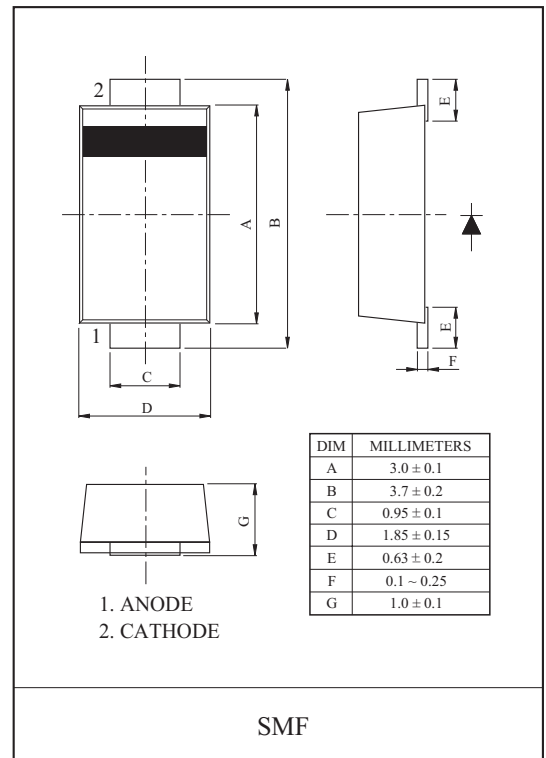
- For Use in Low Voltage, High Frequency inverters, Free Wheeling, and Polarity Protection Applications.
- Suffix U : Qualified to AEC-Q101.
ex) SMFB16-RTK/HU

APPLICATION

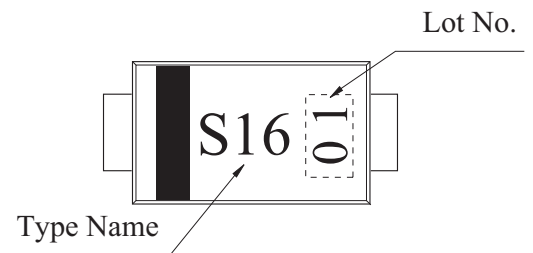
- Switching Power Supply.
- Reversed Battery Connection Protection.
- DC/DC Converter.
- Cellular Phones.

MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Average Output Rectified Current	I_O	1	A
Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz)	I_{FSM}	30	A
Junction Temperature	T_j	-65 150	
Storage Temperature Range	T_{stg}	-65 150	



Marking

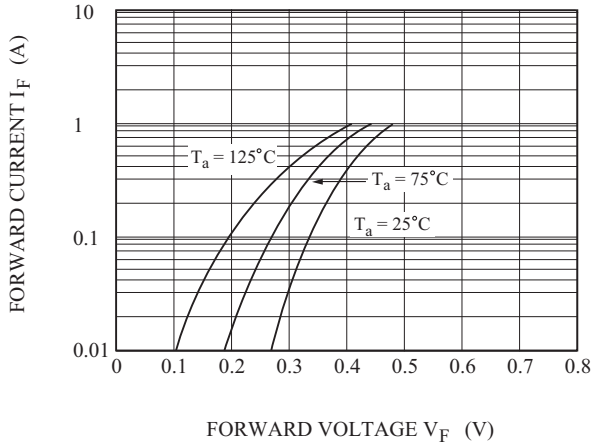


ELECTRICAL CHARACTERISTICS (Ta=25 °C)

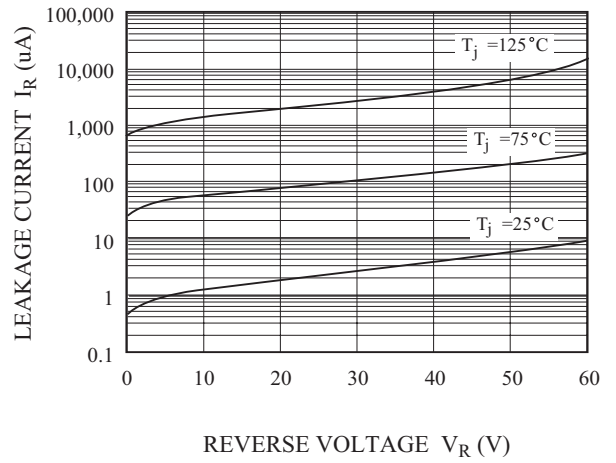
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM}=1.0A$	-	0.49	0.55	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM}=\text{Rated}$	-	7	50	μA
Total Capacitance	C_T	$V_R=10V, f=1MHz$	-	40	-	pF
Thermal Resistance	$R_{th(j-l)}$	Junction to lead	-	-	20	/W
	$R_{th(j-a)}$	Junction to ambient (on a grass-epoxy board)	-	-	140	

SMFB16

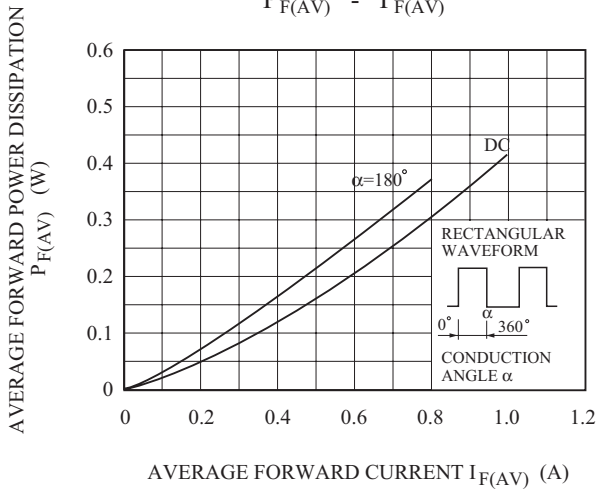
$I_F - V_F$



$I_R - V_R$



$P_{F(AV)} - I_{F(AV)}$



SURGE FORWARD CURRENT (NON-REPETITIVE)

