

Ultrafast Rectifier

FML-23S

FEATURES

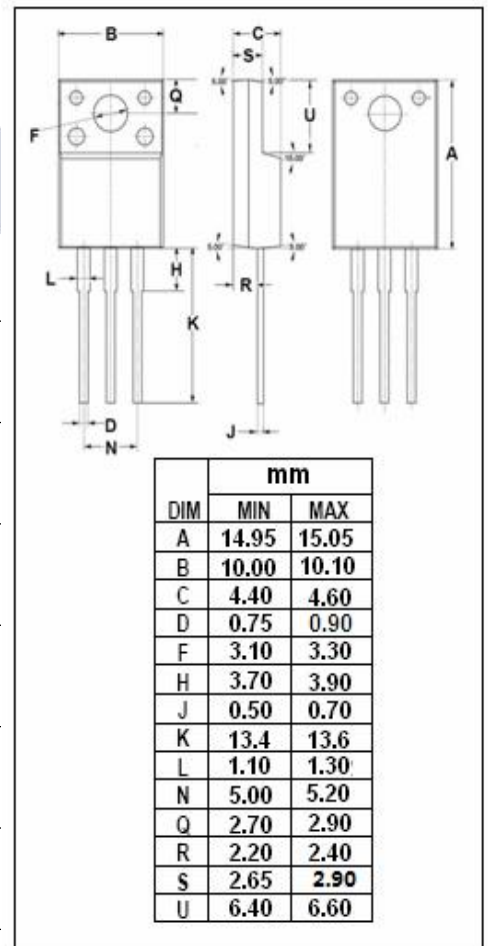
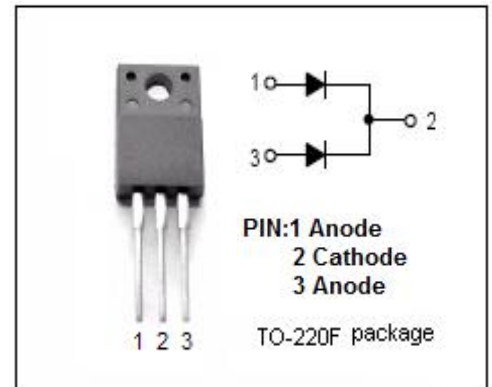
- Ultra-Fast Switching
- High current capability
- Low forward voltage drop
- Low power loss,high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Dual center tap rectifier suited for switched mode power supplies and high frequency DC to DC converters

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{RRM}	Peak Repetitive Reverse Voltage	300	V
$I_{F(AV)}$	Average Rectified Forward Current	10	A
I_{FSM}	Nonrepetitive Peak Surge Current	70	A
T_J	Junction Temperature	-40~150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-40~150	$^{\circ}\text{C}$



Ultrafast Rectifier**FML-23S****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	4.0	$^{\circ}C/W$

ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}C$) (Pulse Test: Pulse Width=300 μs , Duty Cycle $\leq 2\%$)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F=5A$	1.3	V
I_R	Maximum Instantaneous Reverse Current	$V_R=V_{RRM}$	100	μA
t_{rr}	Maximum Reverse Recovery Time	$I_F=0.1A; I_{RP}=0.1A$	50	ns

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