

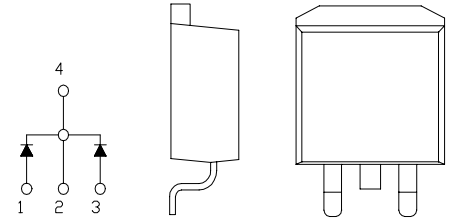
FRD Type : TCU10B60

OUTLINE DRAWING

For Power Factor Improvement High Frequency Rectification

FEATURES

- * Dual Diodes – Cathode Common
- * Ultra – Fast Recovery
- * Low Forward Voltage Drop
- * High Surge Capability



Maximum Ratings

Approx Net Weight:1.45g

Rating	Symbol	TCU10B60			Unit
Repetitive Peak Reverse Voltage	V _{RRM}	600			V
Average Rectified Output Current	I _O	10	Tc=77℃	50 Hz,Full Sine Wave Resistive Load	A
RMS Forward Current	I _{F(RMS)}	11.1			A
Surge Forward Current	I _{FSM}	60	50 Hz Full Sine Wave,1cycle Non-repetitive		A
Operating JunctionTemperature Range	T _{jw}	- 40 to + 150			℃
Storage Temperature Range	T _{stg}	- 40 to + 150			℃
Mounting torque		0.5	Recommended value		N•m

Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j=25^{\circ}\text{C}, V_{RM}=V_{RRM}$ per Arm	-	-	30	μA
Peak Forward Voltage	V_{FM}	$T_j=25^{\circ}\text{C}, I_{FM}=5\text{A}$ per Arm	-	2.3	2.7	V
Reverse Recovery Time	t_{rr}	$I_{FM}=5\text{A}$, $-di/dt=50\text{A}/\mu\text{s}$, $T_a=25^{\circ}\text{C}$	-	19	30	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	-	-	3	$^{\circ}\text{C}/\text{W}$

TCU10B60 OUTLINE DRAWING (Dimensions in mm)

