

General Description

MURF2060CT Device optimized for ultra-low forward voltage drop to maximize efficiency in Power Supply applications.

Features

- Common Cathode
- Super fast switching for high efficiency
- High forward surge current capability
- RoHS Compliant

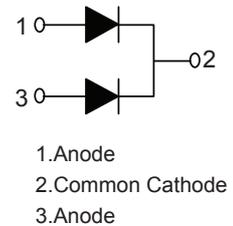
Product Summary

V _{RRM}	V _F	I _{F(AV)}
600V	1.7V	20A

Applications

- Switched Mode Power Supplies (SMPS)
- inverter

TO-220F Pin Configuration



Absolute Maximum Ratings

Symbol	Parameter	Rating	Units
V _{RRM}	Peak Repetitive Reverse Voltage	600	V
I _{F(AV)}	Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% duty cycle	10 (Per Leg) 20 (Total)	A
T _{RR}	Reverse Recovery Time(I _F =0.5A ,I _R =1A ,I _{REC} =0.25A)	≤35	nS
I _{FSM}	Forward Peak Surge Current(Rated Load 8.3ms Half Mssine Wave-According to JEDEC Method)	110x2	A
T _J	Operating Junction Temperature	150	°C
T _{STG}	Storage Temperature	-40 to 150	°C

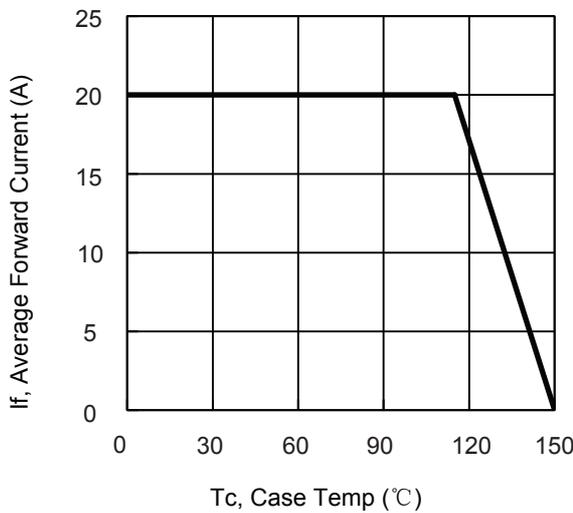
Thermal Data

Symbol	Parameter	Typ.	Max.	Unit
R _{θJC}	Thermal Resistance, Junction to Case(Per Leg)	4	---	°C/W

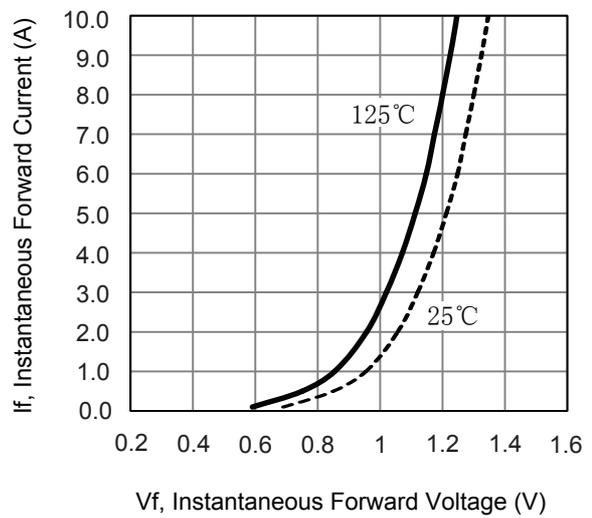
Electrical Characteristics

Symbol	Parameter	Conditions	Min.	Typ.	Max.	Unit
V _F	Forward Voltage Drop per diode	I _F =10A, T _C =25°C (I _{FAV} =10A*2)	---	1.35	1.7	V
		I _F =10A, T _C =125°C (I _{FAV} =10A*2)	---	---	1.3	
I _R	Reverse Leakage Current per diode	V _R =600V, T _C =25°C	---	---	0.01	mA
		V _R =600V, T _C =125°C	---	---	0.1	

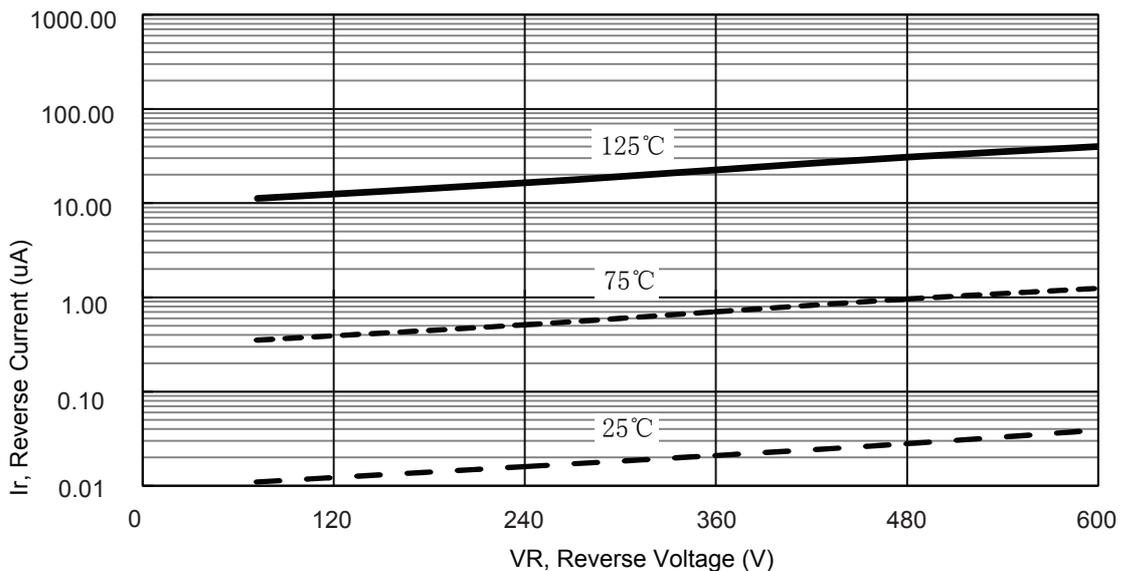
Characteristic Curves



Current derating curve, per element



The forward voltage and forward current curve



The reverse leak current and the reverse voltage (single-device) curve