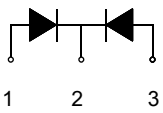
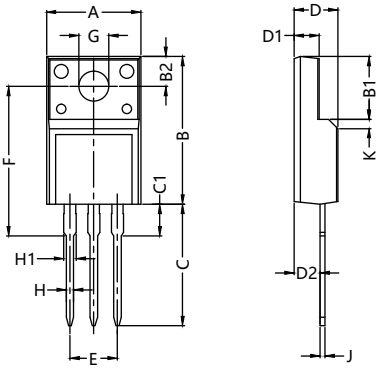
MUR1060CTF

Ultra Fast Recovery Diodes



Dimensions TO-220F-3L



Dim.	Millimeter		Dim.	Millimeter	
	Min.	Max.		Min.	Max.
A	9.80	10.60	D2	2.30	3.30
B	15.40	16.40	E	5.08BSC	
B1	6.00	7.40	F	14.50	16.00
B2	3.20	3.80	ØG	2.90	3.40
C	12.80	13.50	H	0.60	1.00
C1	3.20	4.00	H1	1.15	1.55
D	4.35	4.95	J	0.35	0.65
D1	2.24	2.84	K	0.00	1.60

	V_{RSM} V	V_{RRM} V
MUR1060CTF	600	600

Symbol	Test Conditions		Maximum Ratings	Unit
I_{FRMS} I_{FAVM} I_{FRM}	$T_{VJ}=T_{VJM}$ $T_C=100^oC$; rectangular, d=0.5, Per diode $t_P<10us$; rep. rating, pulse width limited by T_{VJM}		10 5 100	A
I_{FSM}	$T_{VJ}=45^oC$	t=10ms (50Hz), sine t=8.3ms (60Hz), sine	100 110	A
	$T_{VJ}=150^oC$	t=10ms(50Hz), sine t=8.3ms(60Hz), sine	85 95	
I^2t	$T_{VJ}=45^oC$	t=10ms (50Hz), sine t=8.3ms (60Hz), sine	50 50	A^2s
	$T_{VJ}=150^oC$	t=10ms(50Hz), sine t=8.3ms(60Hz), sine	36 37	
T_{VJ} T_{VJM} T_{stg}			-40...+150 150 -40...+150	^oC
P_{tot}	$T_C=25^oC$		52	W
M_d	Mounting torque		0.4...0.6	Nm
V_{ISO}	1min		>2500	Vac
Weight			1.5	g

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MUR1060CTF

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Symbol	Test Conditions	Characteristic Values		Unit
		typ.	max.	
I_R	T_{VJ}=25°C; V_R=V_{RRM} T_{VJ}=25°C; V_R=0.8·V_{RRM} T_{VJ}=125°C; V_R=0.8·V_{RRM}		10 5 1.5	uA uA mA
V_F	I_F=5A; T_{VJ}=150°C T_{VJ}=25°C		1.5 1.7	V
V_{FO}	For power-loss calculations only		0.95	V
r_F	T_{VJ}=T_{VJM}		28.5	mΩ
R_{thJC} R_{thCK} R_{thJA}		0.6	2.8 66	K/W
t_{rr}	I_F=1A; -di/dt=50A/us; V_R=30V; T_{VJ}=25°C	50	60	ns
I_{RM}	V_R=350V; I_F=8A; -di$_F$/dt=200A/us; L≤0.05uH; T_{VJ}=125°C	3.5	4.8	A

FEATURES

* International standard package TO-220F-3L
* Glass passivated chips
* Very short recovery time
* Extremely low switching losses
* Low I_{RM}-values
* Soft recovery behaviour
* RoHS compliant

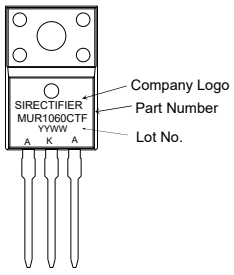
APPLICATIONS

* Antiparallel diode for high frequency switching devices
* Antisaturation diode
* Snubber diode
* Free wheeling diode in converters and motor control circuits
* Rectifiers in switch mode power supplies (SMPS)
* Inductive heating and melting
* Uninterruptible power supplies (UPS)
* Ultrasonic cleaners and welders

ADVANTAGES

* High reliability circuit operation
* Low voltage peaks for reduced protection circuits
* Low noise switching
* Low losses
* Operating at lower temperature or space saving by reduced cooling

Marking



Ordering Information

Part Number	Package	Shipping	Marking Code
MUR1060CTF	TO-220F	50pcs / Tube	MUR1060CTF

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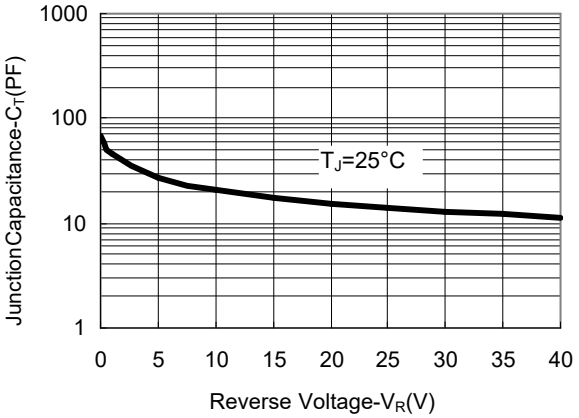

Fig.1-Typical Junction Capacitance

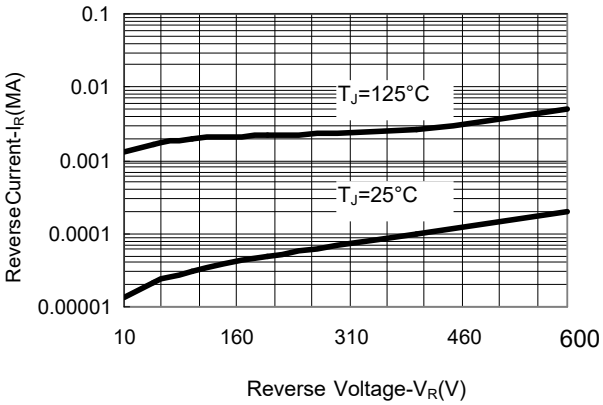

Fig.2-Typical Reverse Characteristics

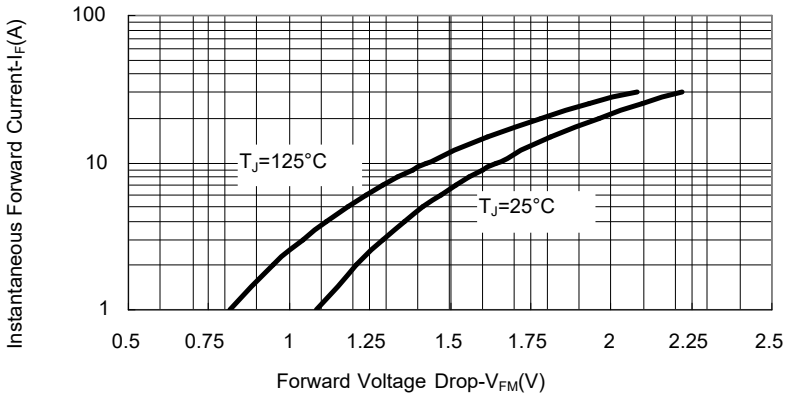

Fig.3-Typical Instantaneous Forward Voltage Characteristics

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