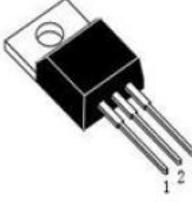
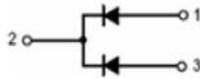
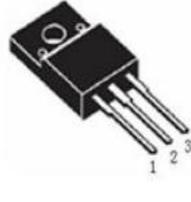
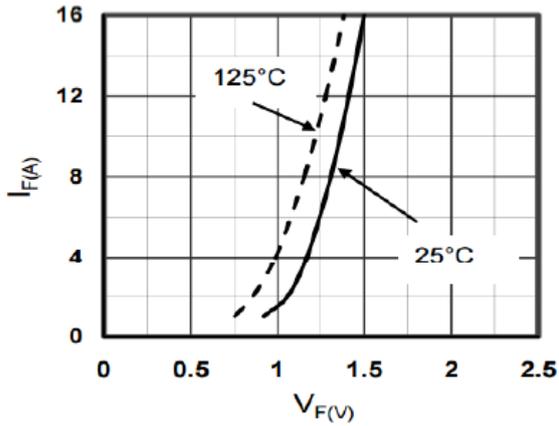
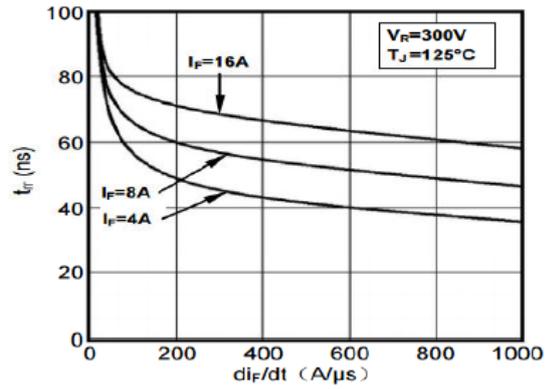


HYPERFAST RECOVERY RECTIFIERS		REVERSE VOLTAGE 600 Volts FORWARD CURRENT 16 Amperes		
<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>• Ultrafast Recovery Time</li> <li>• Soft Recovery Characteristics</li> <li>• Low Recovery Loss</li> <li>• Low Forward Voltage</li> <li>• High Surge Current Capability</li> <li>• Low Leakage Current</li> </ul> <p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li>• Case: TO-220, TO-220F</li> <li>• Polarity: As Marked</li> </ul>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>UF16G06CT</p>  <p>TO-220</p>  </div> <div style="text-align: center;"> <p>UF16G06FCT</p>  <p>TO-220F</p> <p>1, ANODE 2, CATHODE 3, ANODE</p> </div> </div>			
	<p><b>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</b>  Ratings at 25 °C ambient temperature unless otherwise specified.  Single phase, half wave, 60Hz, resistive or inductive load.  For capacitive load, derate current by 20%</p>			
Characteristics	Symbol	UF16G06CT-UF16G06FCT		Unit
Repetitive Reverse Voltage	$V_{RRM}$	600		V
D.C Reverse Voltage	$V_R$	600		V
Forward Voltage $I_F=8A$ $T_J=25^\circ C$ $I_F=8A$ $T_J=125^\circ C$	$V_F$	Typ.	Max.	V
		1.4 1.5	1.8	
Reverse Leakage Current $V_R=600V$ , $T_J=25^\circ C$ $T_J=125^\circ C$	$I_{RM}$		25 500	$\mu A$
Average Forward Current $T_c=110^\circ C$ , Duty=0.5 (Per (Total device)	$I_F$		8 16	A
RMS Forward Current $T_c=110^\circ C$ , Duty=0.5	$I_{FRSM}$		16	A
Non-Repetitive Surge Forward Current $T_J=45^\circ C$ 8.3 ms Single Half Sine-wave	$I_{FSM}$		120	A
Reverse Recovery Time ( $I_F=1A$ , $V_R=30V$ , $diF/dt=-200A/\mu s$ ) ( $I_F=8A$ , $V_R=400V$ , $diF/dt=-200A/\mu s$ ) $T_J=25^\circ C$ ( $I_F=8A$ , $V_R=400V$ , $diF/dt=-200A/\mu s$ ) $T_J=125^\circ C$	$T_{rr}$	30 45 70		nS
Reverse Recovery Charge ( $I_F=8A$ , $V_R=400V$ , $diF/dt=-200A/\mu s$ ) $T_J=125^\circ C$	$Q_{rr}$	180		nC
Max. Reverse Recovery Current ( $I_F=8A$ , $V_R=400V$ , $diF/dt=-200A/\mu s$ ) $T_J=125^\circ C$	$I_{RRM}$	5		A
Junction and Storage Temperature Range	$T_J$ , $T_{STG}$	-55 to +175		$^\circ C$

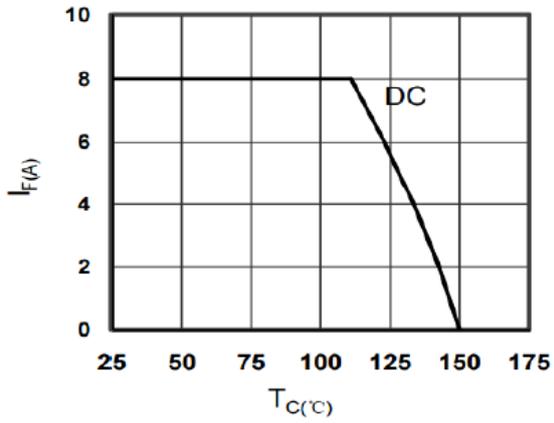
**Rating and Characteristic Curves**



**Typical Forward Voltage Per Diode**



**Reverse Recovery Time vs  $di_F/dt$**

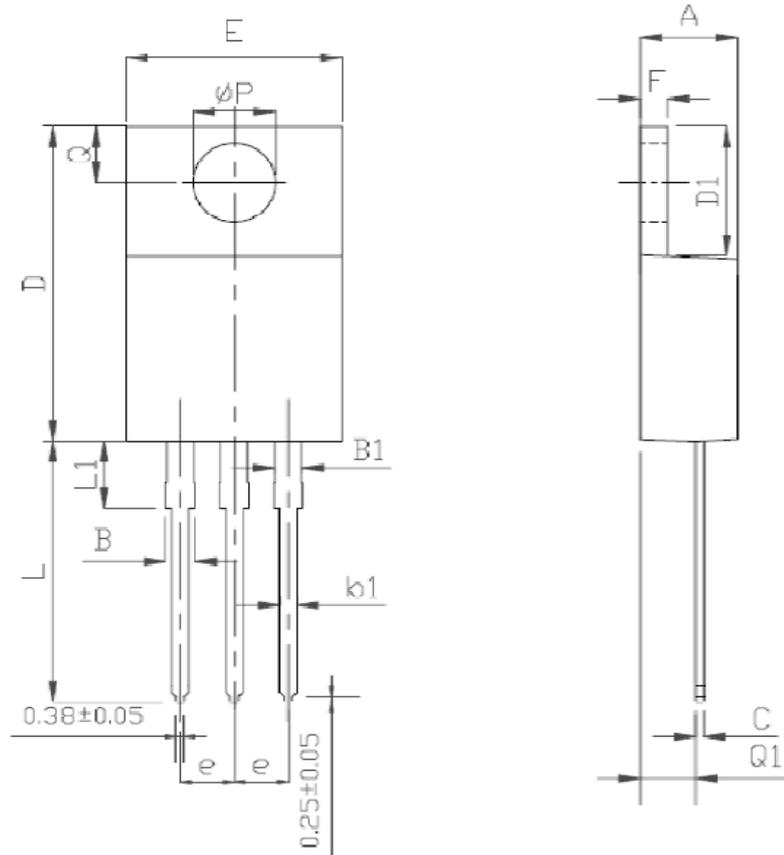


**Average Forward Current vs. Case Temperature Per Diode**

**T0-220 MECHANICAL DATA**

UNIT: mm

SYMBOL	MIN	NOM	MAX	SYMBOL	MIN	NOM	MAX
A	4		4.8	e	2.44	2.54	2.64
B	1.2		1.4	F	1.1		1.4
B1	1		1.4	L	12.5		14.5
b1	0.75		0.95	L1	3	3.5	4
c	0.4		0.55	ΦP	3.7	3.8	3.9
D	15		16.5	Q	2.5		3
D1	5.9		6.9	Q1	2		2.9
E	9.9		10.7				



**T0-220F MECHANICAL DATA**

UNIT: mm

SYMBOL	MIN	NOM	MAX	SYMBOL	MIN	NOM	MAX
A	4.5		4.9	E1	6.5	7	7.5
A1	2.3		2.9	e	2.44	2.54	2.64
b	0.65		0.9	L	12.5		14.3
b1	1.1		1.7	L1	9.45		10.05
b2	1.2		1.4	L2	15		16
c	0.35		0.65	L3	3.2		4.4
D	14.5		16.5	ΦP	3		3.3
D1	6.1		6.9	Q	2.5		2.9
E	9.6		10.3				

