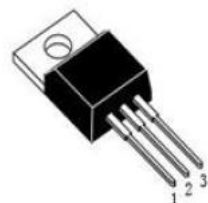
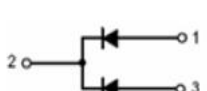
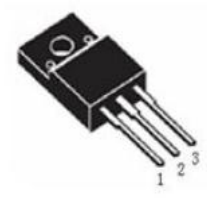
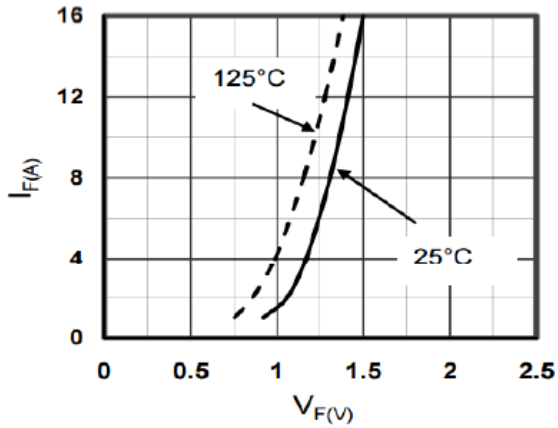
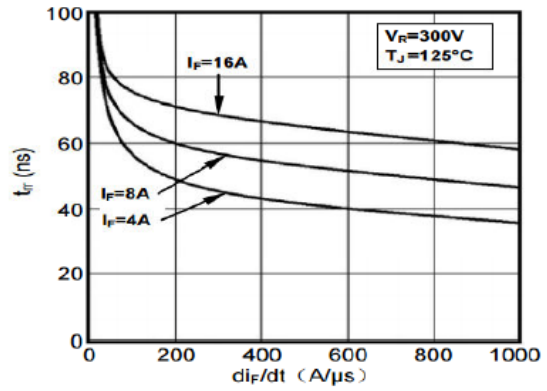


HYPERFAST RECOVERY RECTIFIERS		REVERSE VOLTAGE 600 Volts FORWARD CURRENT 16 Amperes		
<p>FEATURES</p> <ul style="list-style-type: none"> • Ultrafast Recovery Time • Soft Recovery Characteristics • Low Recovery Loss • Low Forward Voltage • High Surge Current Capability • Low Leakage Current <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case: TO-220, TO-220F • Polarity: As Marked 	<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>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS 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	μA
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		$^\circ C$

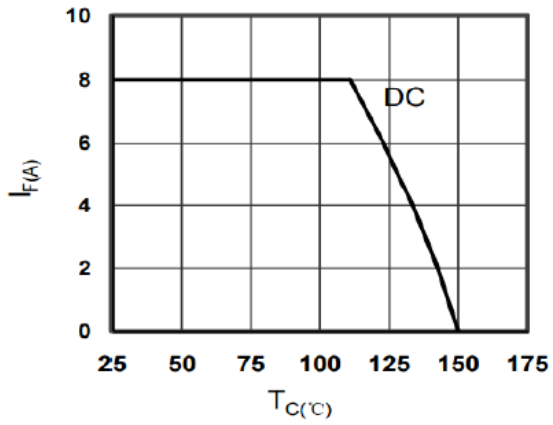
Rating and Characteristic Curves



Typical Forward Voltage Per Diode



Reverse Recovery Time vs di_F/dt

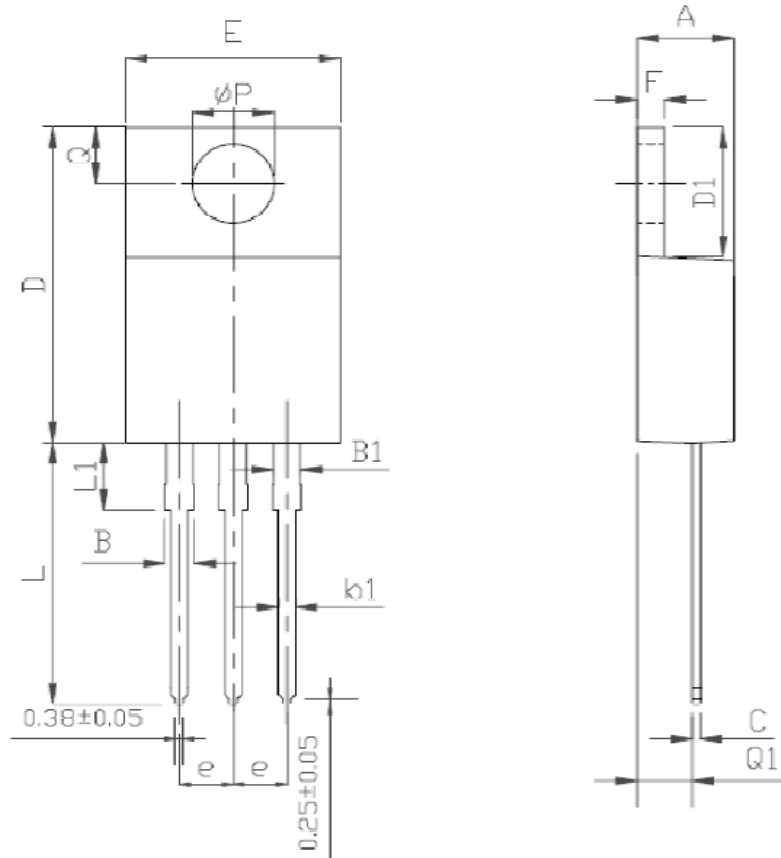


Average Forward Current vs. Case Temperature Per Diode

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				

