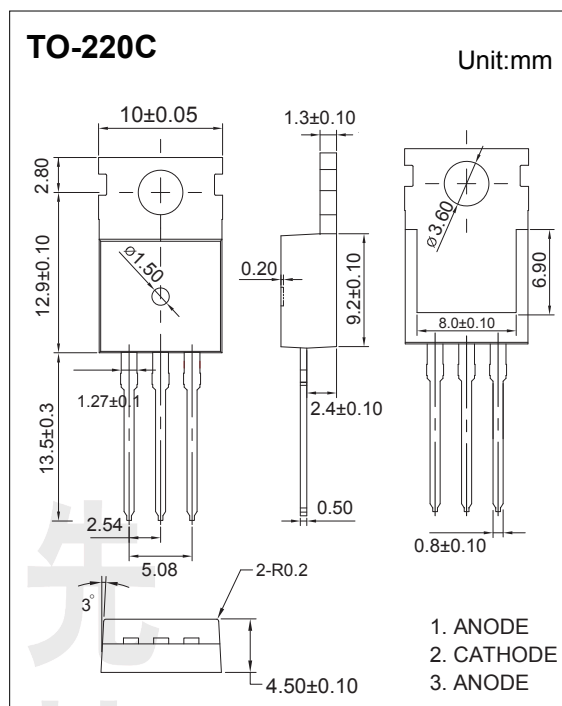
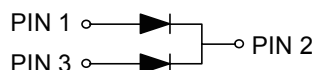


Ultrafast Rectifier MUR1630CT~MUR1660CT

■ Features

- Glass passivated chip
- Superfast switching time for high efficiency
- Low reverse leakage current
- High surge capacity



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	MUR 1630CT	MUR 1640CT	MUR 1660CT	Unit
Repetitive peak reverse voltage	V _{RRM}	300	400	600	V
Working peak reverse voltage	V _{RWM}				
DC blocking voltage	V _R				
RMS reverse voltage	V _{R(RMS)}	210	280	420	
Average Forward Current @T _c = 100°C	I _{FAV}	16			A
Non-Repetitive peak forward surge current @8.3ms	I _{FSM}	125			
Junction temperature	T _J	150			°C
Storage temperature	T _{STG}	-55 to 150			

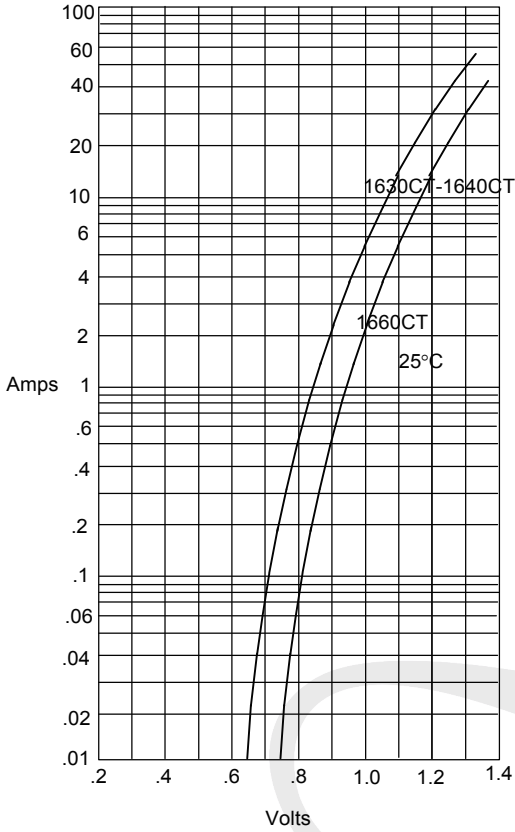
■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R =0.1mA	300			V
			400			
			600			
Reverse voltage leakage current	I _R	T _J = 25°C			5	uA
		T _J = 100°C			500	
Forward voltage	V _F	I _F =8A			1.3	V
		T _J = 25°C			1.5	
Maximum Reverse Recovery Time	t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A			50	nS
Typical total capacitance	C _t	V _R =4V, f=1MHz			80	pF

Ultrafast Rectifier MUR1630CT~MUR1660CT

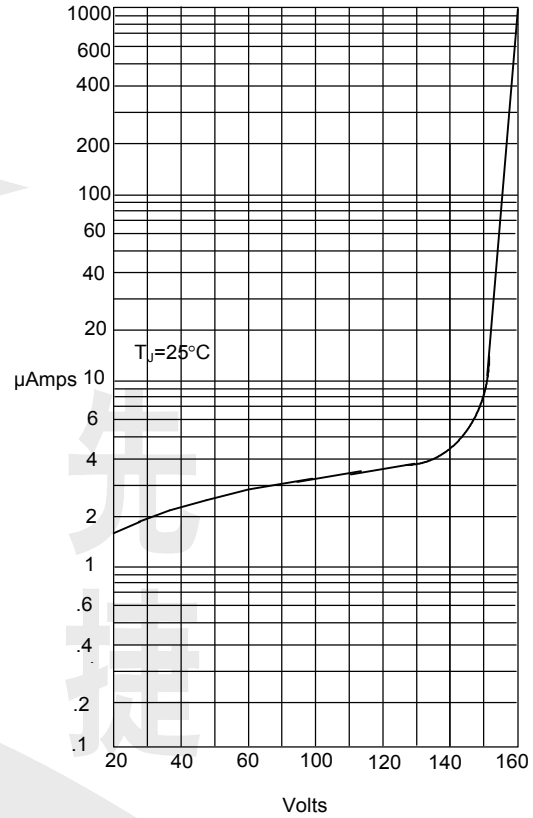
■ Typical Characteristics

Figure 1
Typical Forward Characteristics



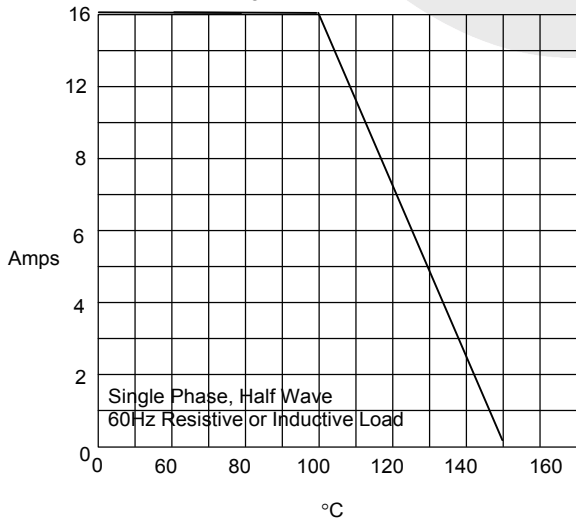
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



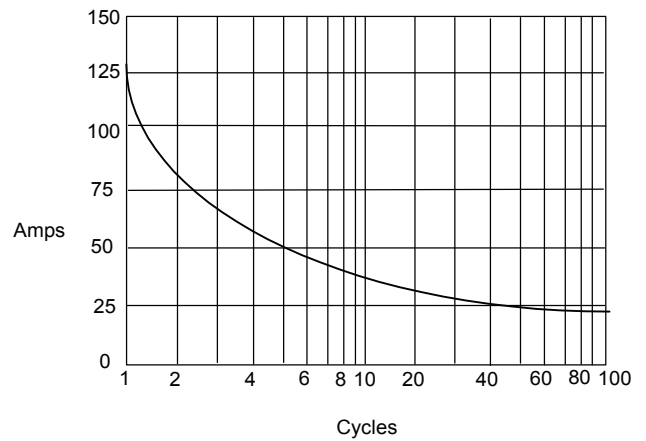
Instantaneous Reverse Leakage Current - MicroAmperes versus
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



Average Forward Rectified Current - Amperes versus
Case Temperature - °C

Figure 4
Maximum Non-Repetitive Forward Surge Current



Peak Forward Surge Current - Amperes versus
Number Of Cycles At 60Hz - Cycles