



Micro Commercial Components

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# MUR3005PT THRU MUR3060PT

## Features

- High Surge Capability
- Low Forward Voltage Drop
- High Current Capability
- Super Fast Switching Speed For High Efficiency
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

**30 Amp  
 Super Fast Recovery  
 Rectifier  
 50 to 600 Volts**

## Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

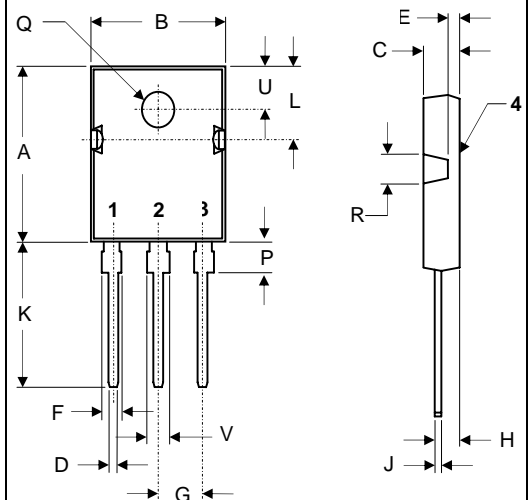
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR3005PT	50V	35V	50V
MUR3010PT	100V	70V	100V
MUR3020PT	200V	140V	200V
MUR3030PT	300V	210V	300V
MUR3040PT	400V	280V	400V
MUR3060PT	600V	420V	600V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	30 A	$T_C = 125^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	300A	8.3ms, half sine
Maximum Instantaneous Forward Voltage MUR3005PT-3020PT MUR3030PT-3040PT MUR3060PT	$V_F$	0.95V 1.30V 1.50V	$I_{FM} = 15.0\text{A};$ $T_C = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	10µA 500µA	$T_C = 25^\circ\text{C}$ $T_C = 125^\circ\text{C}$
Maximum Reverse Recovery Time MUR3005PT-3020PT MUR3030PT-3060PT	$T_{rr}$	35ns 50ns	$I_F=0.5\text{A}, I_R=1.0\text{A},$ $I_{rr}=0.25\text{A}$

\*Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

## TO-247



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.837	.856	21.25	21.75	
B	.620	.640	15.75	16.25	
C	.192	.202	4.87	5.13	
D	.044	.048	1.12	1.22	
E	.074	.082	1.88	2.08	
F	.075	.085	1.90	2.16	
G	.205	.224	5.20	5.70	
H	.083	.095	2.10	2.40	
J	.020	.030	0.51	0.76	
K	.772	.791	19.60	20.10	
L	.286	.295	7.26	7.50	
P	.149	.172	3.78	4.38	
Q	.114	.126	2.90	3.20	∅
R	.173TYP		4.40TYP		
U	.209	BSC	5.30	BSC	
V	.115	.127	2.93	3.22	

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FIG.1 - FORWARD CURRENT DERATING CURVE

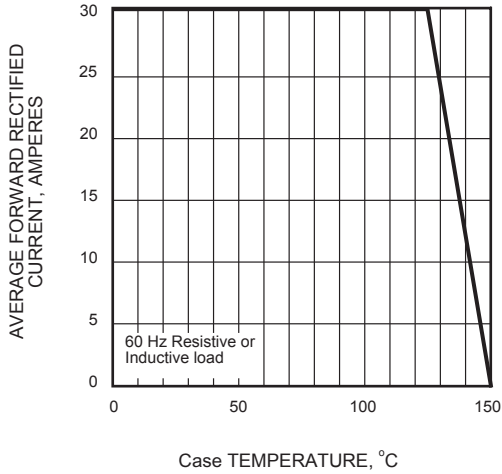


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

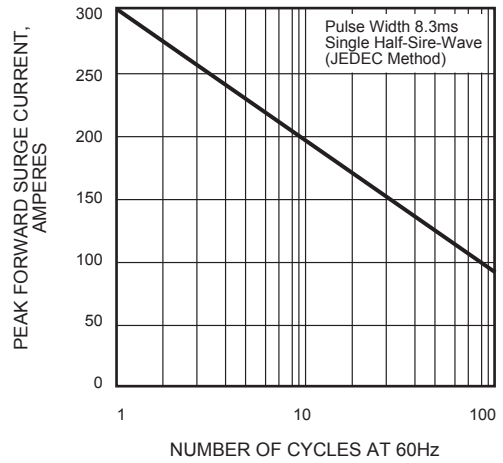


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

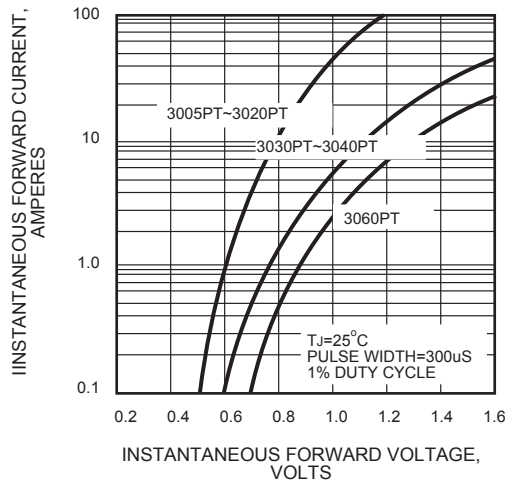


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

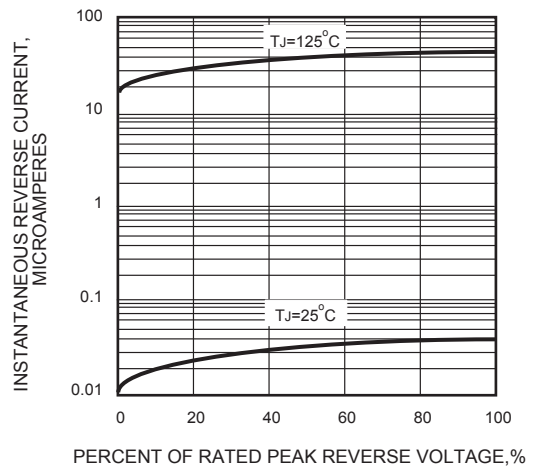
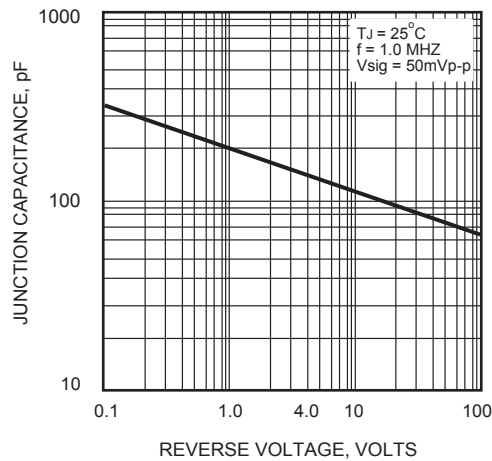


FIG.5 - TYPICAL JUNCTION CAPACITANCE





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