MUR1040AC-FAC-DC

ULTRAFST RECOVERY RECTIFIERS

Reverse Voltage - 400 V

**Forward Current - 10 A**

FEATURES

♦High speed switching capability

♦High current capability

♦High forward surge capability

♦Low power losses，High efficiency

♦For use in low voltage, high frequency inverters

♦Lead free in comply with EU RoHS 2011/65/EU directives
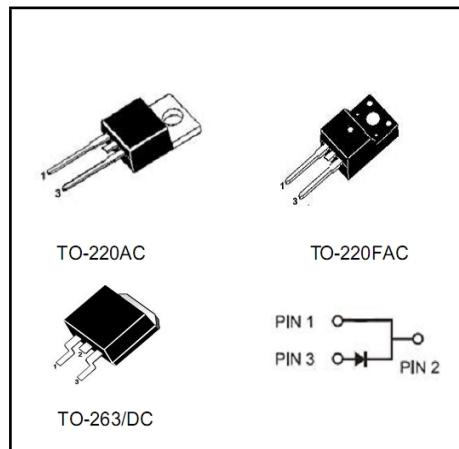
MECHANICAL DATA

♦Case: TO-220AC TO-220FAC TO-263/DC

♦Solder bath temperature275℃maximum,10s per JESD22-106

TO-220AC   TO-220FAC

TO-263/DC

PIN 1
PIN 3   PIN 2

Primary Characteristic

I_o	10A
V_{RRM}	400V
I_{FSM}	160A
V_F	0.95V
T_J Max	150°C

Maximum Ratings (Per Leg) at Ta=25°C unless otherwise specified

Parameter	Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	400	V
Maximum RMS voltage	V_{RMS}	400	V
Maximum DC Blocking Voltage	V_{DC}	400	V
Maximum Average Forward Rectified Current	I_o	10	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave	I_{FSM}	160	A
Operating Temperature Range	T_J	-40 ~ +150	°C
Storage Temperature Range	T_{STG}	-40 ~ +150	°C
Typical Thermal Resistance (Note1) TO-220AC TO-263/DC TO-220FAC	$R_{\theta JA}$/ $R_{\theta JC}$	2/4	°C/W

Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics		Symbols	Value		Units
Forward Voltage Drop(Note2)			Typ	Max	
at IF=3A	TA=25°C	V_F	0.91	-	V
	TA=125°C		0.76	-	
at IF=5A	TA=25°C		0.97	-	
	TA=125°C		0.83	-	
at IF=10A	TA=25°C		1.08	1.3	
	TA=125°C		0.95	-	
Maximum Reverse Current at V_R=400V	TA=25°C	I_R	0.007	1	uA
	TA=125°C		5	-	uA
Maximum Reverse Recovery Time at IF=0.5A, IR=1A, IRR=0.25A		T_{RR}	-	35	nS

Note2:Pulse test: 300 µs pulse width, 1 % duty cycle

RATINGS AND CHARACTERISTIC CURVES

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE
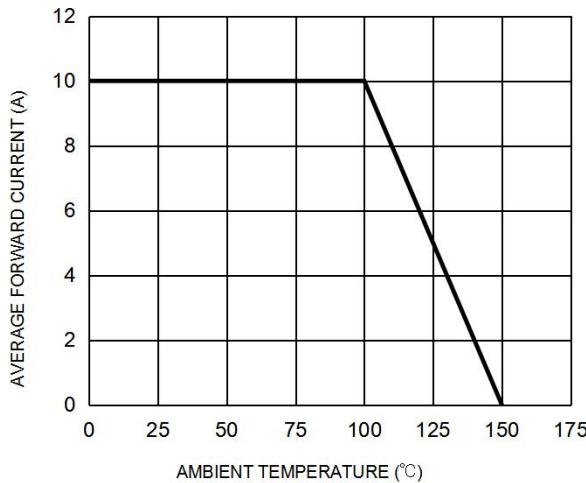
FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

8.3ms Single Half Sine Wave JEDEC Method
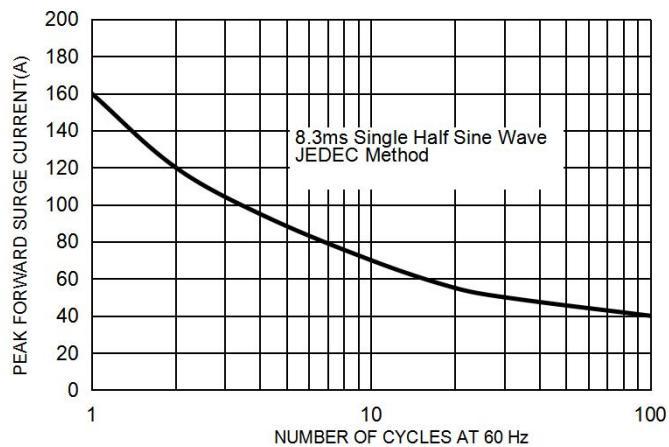
FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

TA=125℃

TA=25℃
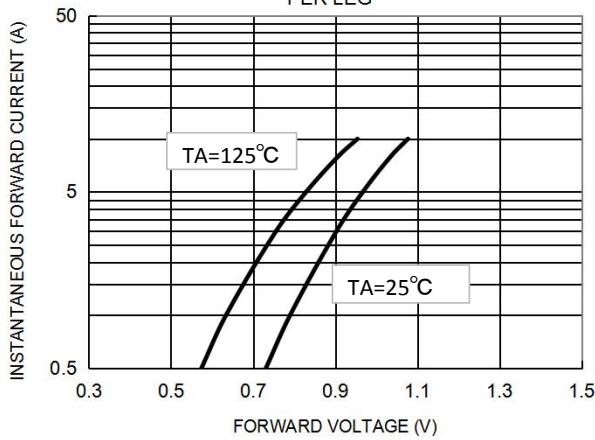
FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG

TA=125℃

TA=25℃

Marking on the body

LOGO → YFW

XXXXXXXXXXXX → Model name

Polarity labeling → ⊣◁⊢ XXXXXX → MAKING

MAKING:

X X X X X X

Assembly code (e.g : AB,CD,.....)

Material –Code (H:No halogen A:ordinary)

Week – code (WW:01~52)

Year – code (Y: Last digit of year & A:2012,B:2013. . .)
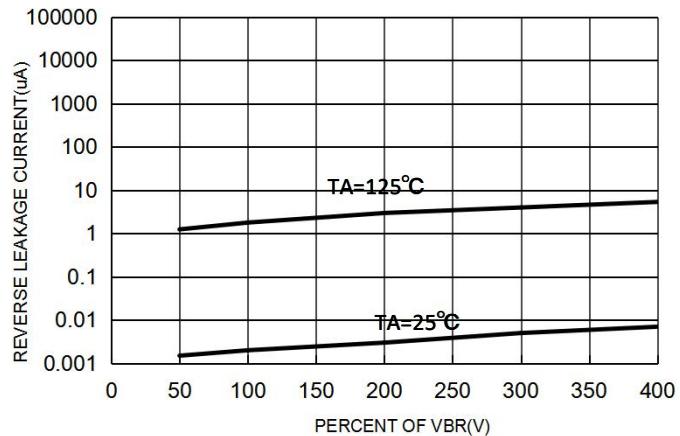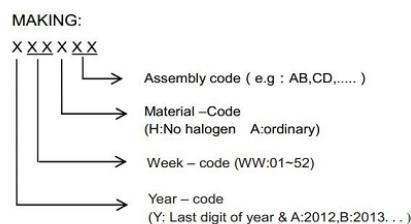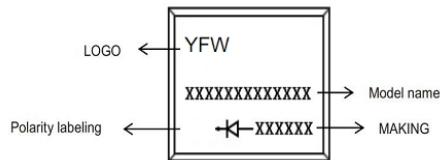
Ordering information

Part Number	Package	Unit Weight	Base Quantity	Delivery mode
MUR1040	TO-220AC	0.067oz(1.9g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MUR1040F	TO-220FAC	0.06oz(1.7g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MUR1040DC	TO-263	0.04oz(1.16g)	50 pcs / tube	1000pcs/box 5000pcs/carton
MUR1040DC-R	TO-263	0.04oz(1.16g)	800 pcs / reel	800pcs/box4000pcs/carton

Note: For Halogen Free molding compound, add "H" suffix to part number above.

Package Outline Dimensions millimeters

TO-220AC
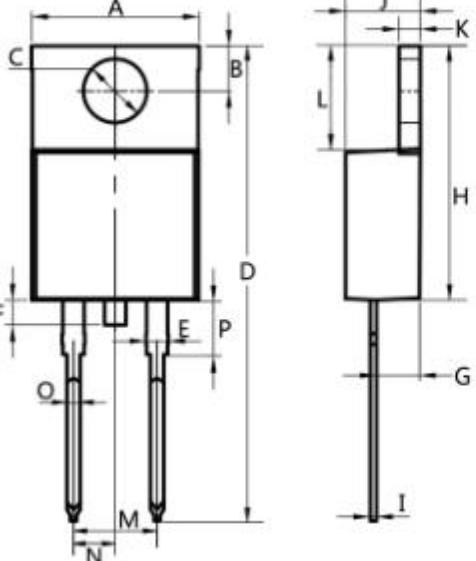
| Dim.	Min.	Max.
A	10.15	10.35
B	2.65	2.95
C	3.70	3.90
D	28.5	29.5
E	1.3	1.45
F	1.4	1.6
G	2.9	3.3
H	15.0	16.0
I	0.38	0.42
J	4.45	4.55
K	1.25	1.35
L	6.35	6.55
M	Typ 5.08	
N	Typ 2.54	
O	0.76	0.84
P	3.1	3.3
All Dimensions in millimeter		

TO-220FAC
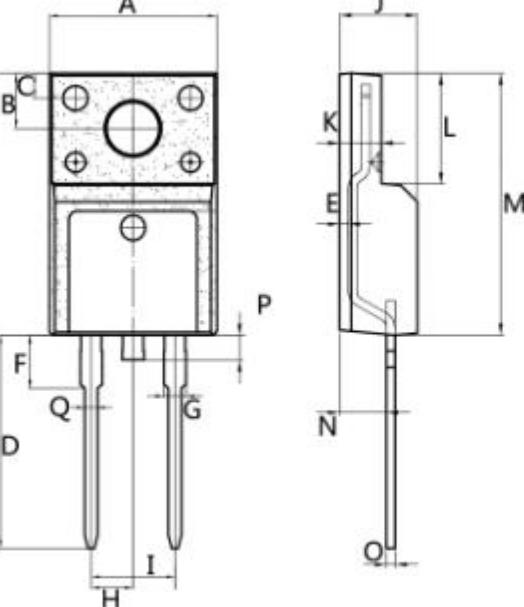
Dim.	Min.	Max.
A	9.95	10.25
B	2.95	3.25
C	1.25	1.45
D	12.95	13.25
E	0.50	0.65
F	3.1	3.3
G	1.30	1.45
H	Typ 2.54	
I	Typ 5.08	
J	4.60	4.75
K	2.50	2.65
L	6.35	6.55
M	15.4	16.0
N	2.75	3.05
O	0.48	0.52
P	1.4	1.60
Q	0.76	0.84
All Dimensions in millimeter		

TO-263
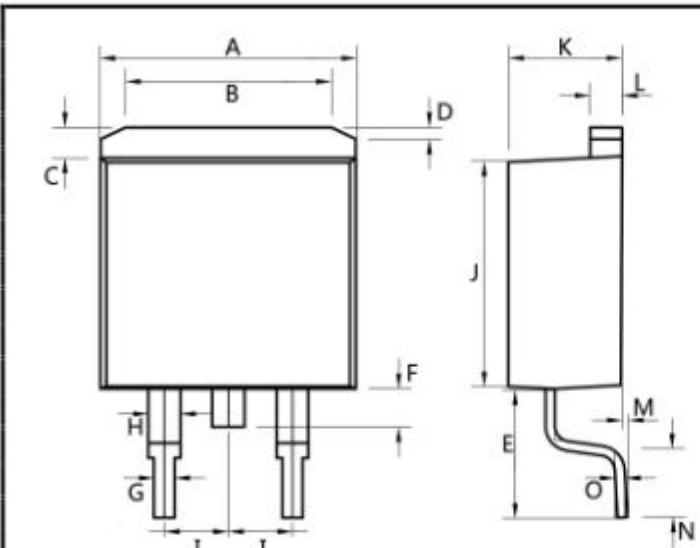
| Dim.	Min.	Max.
A	10.1	10.2
B	7.4	7.6
C	1.3	1.5
D	0.55	0.75
E	5.0	6.0
F	1.4	1.6
G	0.78	0.86
H	1.2	1.3
I	Typ 2.54	
J	8.4	8.6
K	4.45	4.55
L	1.25	1.35
M	0.02	0.1
N	2.4	2.8
O	0.36	0.40
All Dimensions in millimeter		

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