

WO-220DF

Ultrafast Recovery Diode in a TO-220AC Plastic Package.

WO-220DF

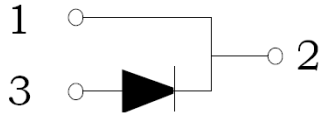
H₁

600Y

Ultrafast recovery time, popular TO-220AC package, low forward voltage, low leakage current, reverse voltage to 600V.

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These devices are intended for output rectifiers and flywheel diodes in a variety of high-frequency pulse-width modulated switching regulators. Their low stored charge and attendant fast reverse-recovery behavior minimize electrical noise generation and in many circuits markedly reduce the turn-on dissipation of associated power switching transistors.



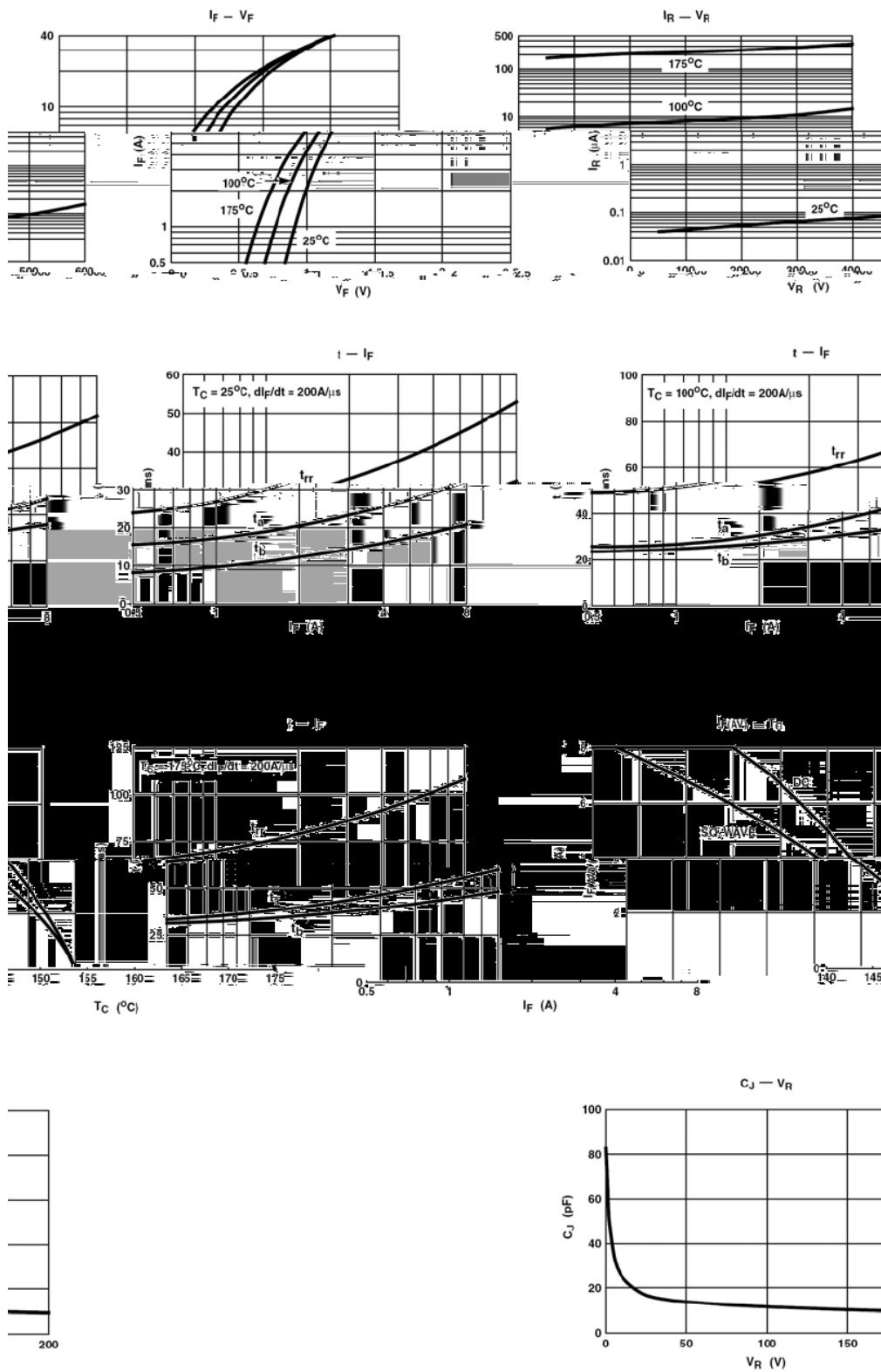
PIN1 2 Cathode

PIN 3 Anode

See Marking Instructions

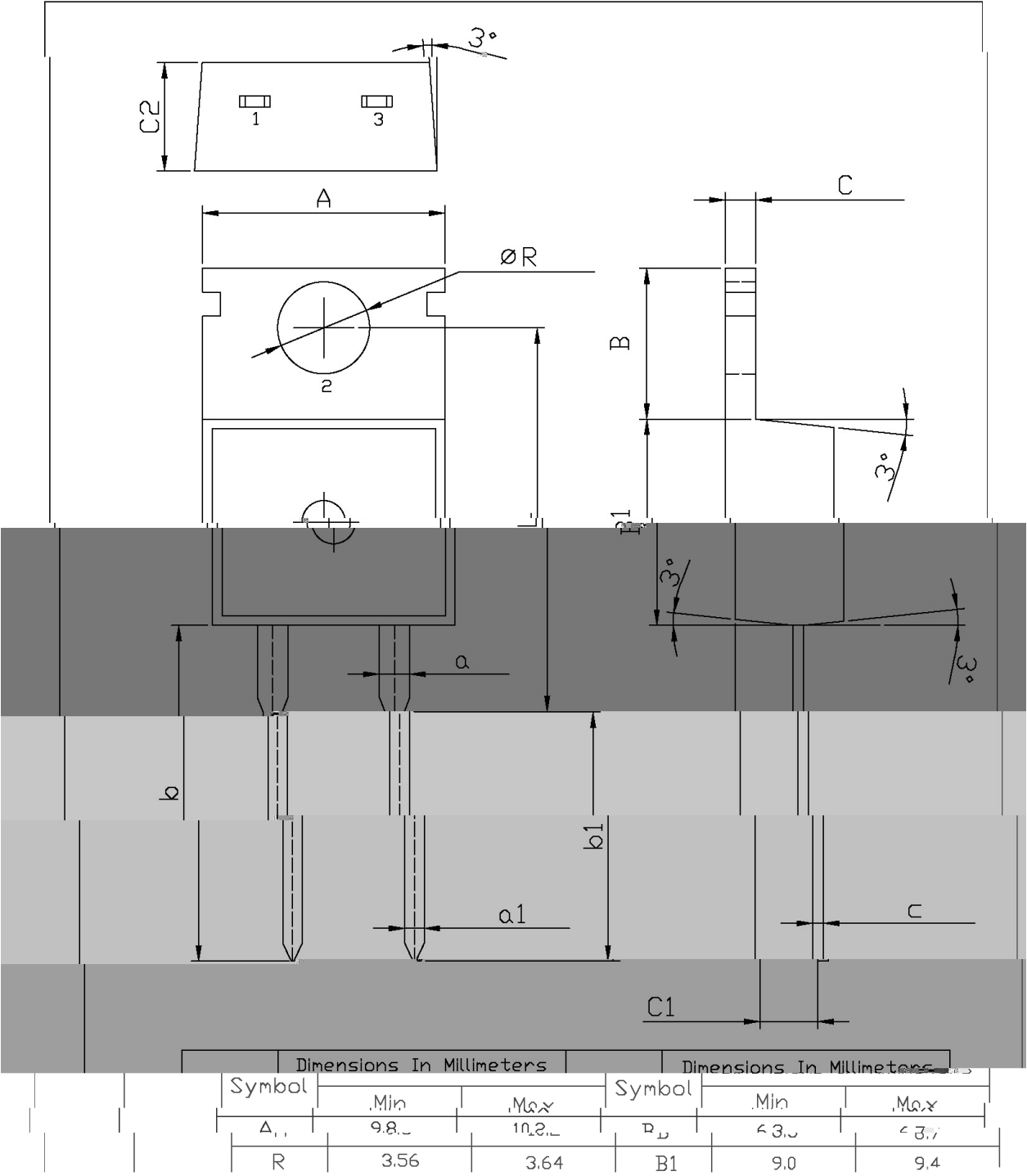
Parameter	N Symbol	Rating	H Unit
Peak Repetitive Reverse Voltage	V_{RRM}	600	V
Working Peak Reverse Voltage	V_{RWM}	600	V
DC Blocking Voltage	V_R	600	V
Average Forward Current	I_F	8	A
Non Repetitive Peak Surge Current	I_{FRM}	16	A
Peak forward surge current	I_{FSM}	100	A
Power Dissipation	$P_{C(T_C=25^{\circ}C)}$	75	W
Junction Temperature Range	T_j	150	
Storage Temperature Range	T_{stg}	-55~150	

Parameter	N Symbol	Test Conditions	Min	ϵ Typ	Max	H Unit
Forward Voltage	V_F	$I_F=8A$			1.5	V
		$I_F=8A \quad T_C=150$			1.2	V
Instantaneous Reverse Current	I_R	$V_R=600V$			100	μA
		$V_R=600V \quad T_C=150$			500	μA
Reverse Recovery Time	t_{rr}	$I_F=1A \quad dI_F/dt=200A/\mu S$			60	ns
		$I_F=8A \quad dI_F/dt=200A/\mu S$			70	ns
Time To Reach Peak Reverse forward current	t_a	$I_F=8A \quad dI_F/dt=200A/\mu S$		32		ns
Time From Peak IRM Projected zero crossing of IRM based on a straight line peak through 25%	t_b	$I_F=8A \quad dI_F/dt=200A/\mu S$		21		ns
Reverse Recovery change	Q_{RR}	$I_F=8A \quad dI_F/dt=200A/\mu S$		195		nC
Junction Capacitance	C_J	$V_R=10V \quad I_F=0A$		25		pF



TO-220AC

Unit:mm

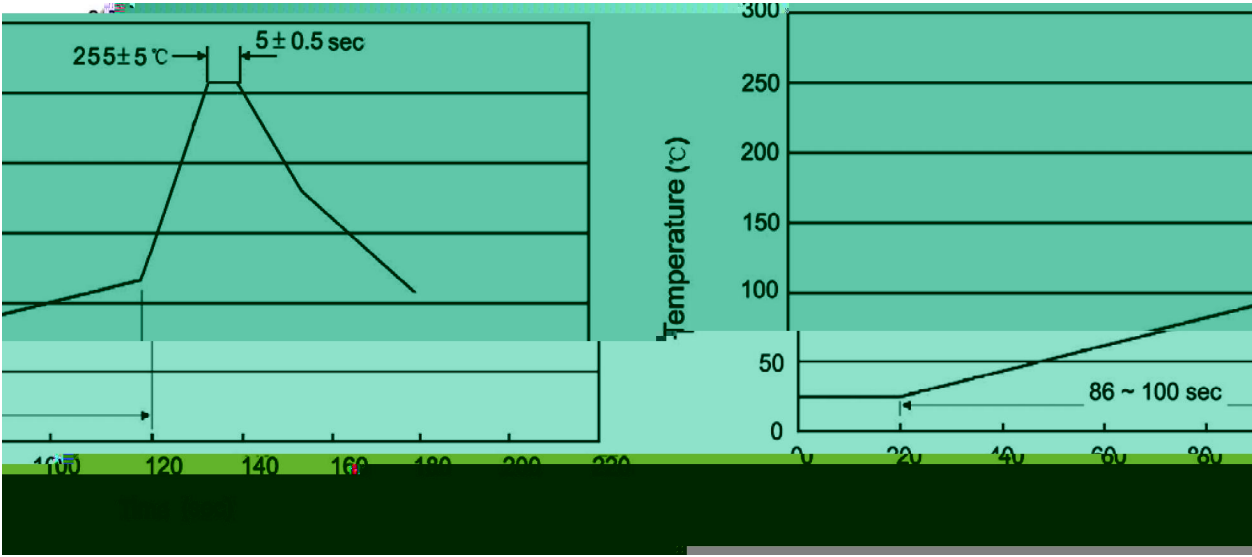




ER	N	
MXR860	N	
****	N	N

Note:

BR:	Company Code
MUR860	Product Type.
****:	Lot No. Code, code change with Lot No.



Note:

- 1

25 150

60 90sec;
- 2

255±5

5±0.5sec;
- 3

2 10 /sec.
- 1.Preheating:25~150 , Time:60~90sec.

2.Peak Temp.:255±5 , Duration:5±0.5sec.

3. Cooling Speed: 2~10 /sec.

270±5

10±1 sec.

Temp.:270±5

Time:10±1 sec

/ BULK

Package Type	Units					Dimension (unit mm ³)		
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
TO-220/F/AC	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type	Units					Dimension (unit mm ³)		
	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube	Inner Box	Outer Box
TO-220/F/AC	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180