

WR0553DF M M Ồ Ỗ Ứ ॥ 1

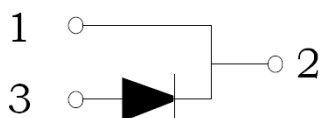
Ultrafast Recovery Diode in a TO-220AC Plastic Package.

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

$\beta \mid \mathfrak{F}^{\wedge}_{\infty}$ $\check{\mathbf{K}}$ $\mathfrak{D}$ $\mathbf{A}^{\boxed{\text{OBJ}}}$, $\mathfrak{Q}^{\mathbb{L}} \models \mathcal{A}^{\mathbb{L}}$ $\mathfrak{t} \vdash \mathfrak{t} \mathfrak{u} \tilde{\omega} \mathfrak{r}^b \tilde{\mathcal{O}}^{\mathfrak{u}} \mathfrak{d}$ $\mathbf{N} \tilde{\mathcal{O}}^{\mathfrak{u}} \mathbf{H}$ $\tilde{\mathfrak{d}}^{\boxed{\text{OBJ}}} \leq \mathfrak{p} \mid \mathbf{A}$
 $\mathfrak{Q} \mathfrak{I}^{\mathfrak{r}} \mathfrak{I}^{\mathfrak{o}} \mathbf{N} \mathfrak{d}$ $\boxed{\text{OBJ}} \tilde{\mathfrak{A}} \mathfrak{H}^{\mathfrak{r}} \mathfrak{Q} \check{\mathfrak{a}}$

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.



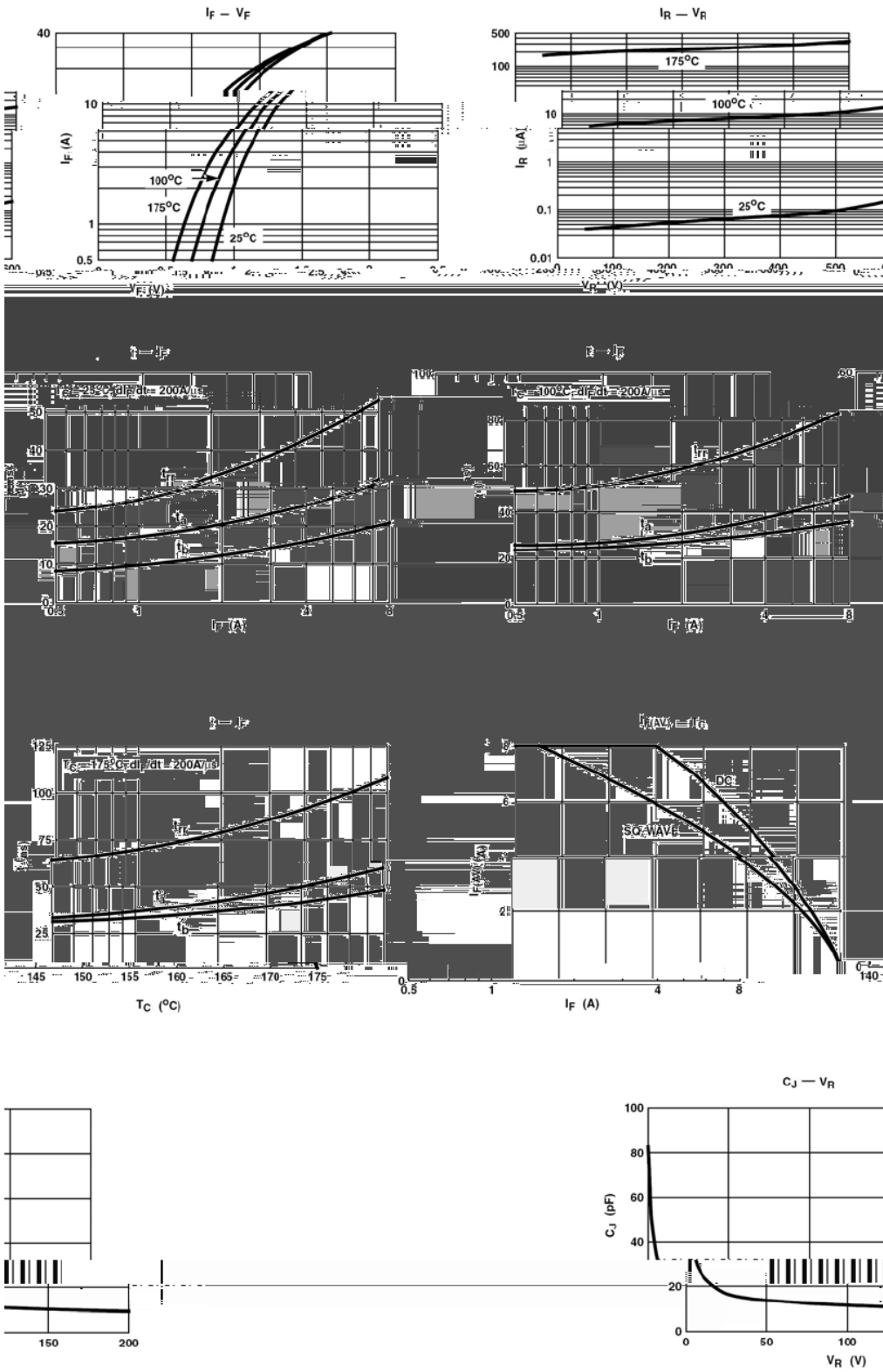
PIN1 2 x Cathode

PIN 3 $\times$ Anode

M 7 " See Marking Instructions

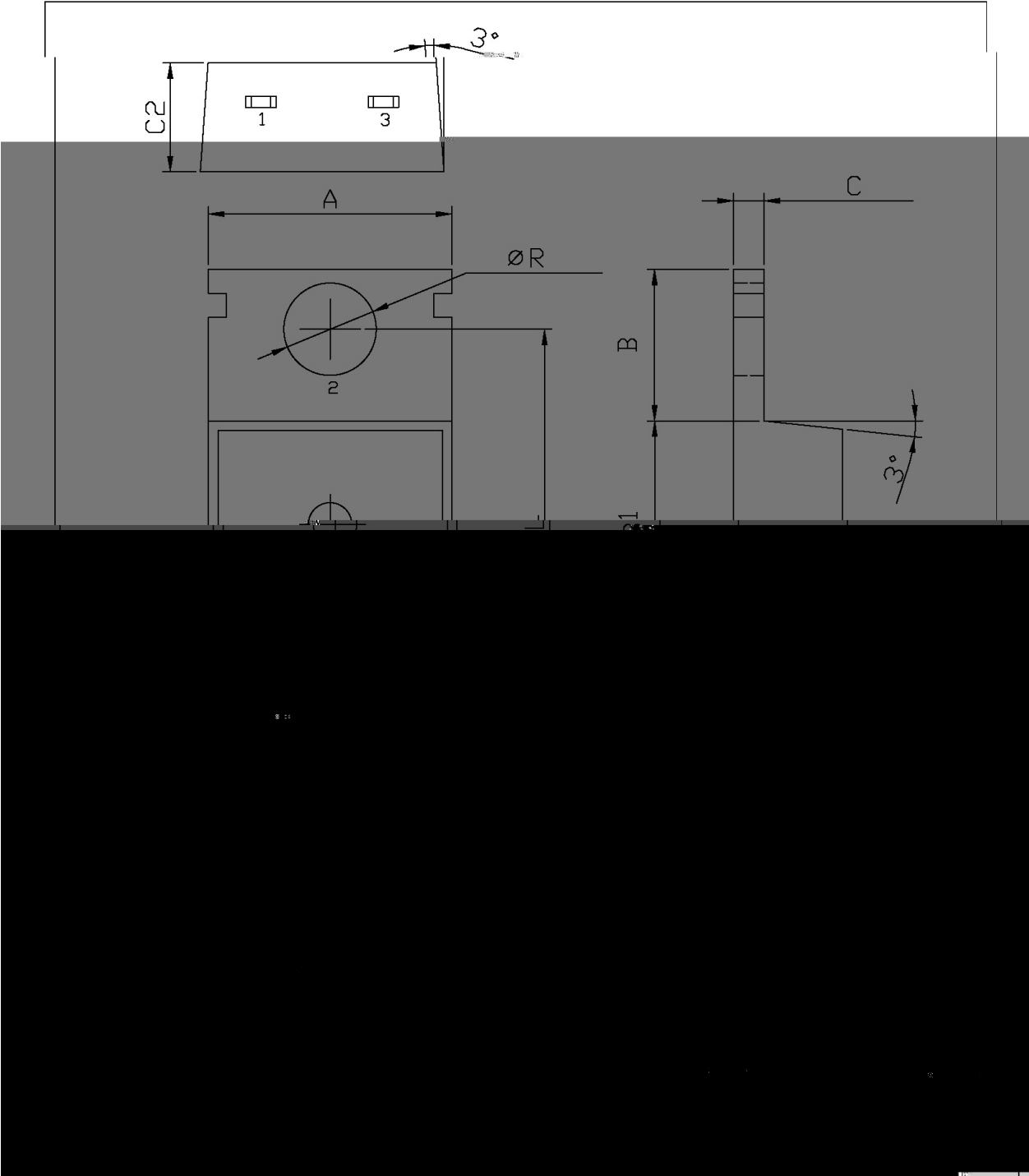
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	600	V
Working Peak Reverse Voltage	V_{RWM}	600	V
DC Blocking Voltage	V_R	600	V
Average Forward Current	I_F	8	A
Non Repetitive Peak Surge Current	I_{FRM}	16	A
Peak forward surge current	I_{FSM}	100	A
Power Dissipation	$P_{C(Tc=25^{\circ}C)}$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

Parameter	Symbol	Test Conditions	Min	Typ	Max	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



TD-220AC

Unit:mm



			L	15.77	16.1	C1	2.2	2.6
			b	12.6	13.6	C	1.2	1.4
			b1	0.4	0.6	C2	0.4	0.6
			a	1.22	1.32		4.3	4.7
			a1	0.7	0.9			



- ” X
1. 25~150 ℃, Time: 60~90sec;
 2. 255±5 ℃, Duration: 5±0.5sec;
 3. Cooling Speed: 2~10 ℃/sec.

- Note:
1. Preheating: 25~150 ℃, Time: 60~90sec.
 2. Peak Temp.: 255±5 ℃, Duration: 5±0.5sec.
 3. Cooling Speed: 2~10 ℃/sec.

270±5 ℃, Time: 10±1 sec. Temp.: 270±5 Time: 10±1 sec

“Q T Y / BULK

Package Type Units