

UTC UNISONIC TECHNOLOGIES CO., LTD

ER1004

Preliminary

DIODE

SUPERFAST RECOVERY RECTIFIER

DESCRIPTION

The UTC ER1004 is a superfast recovery rectifier, it uses UTC's advanced technology to provide customers with low forward voltage drop, high current capability and high efficiency, etc.

FEATURES

- * Low forward voltage drop
- * High current capability
- * High surge capacity
- * Low power loss
- * High efficiency
- * Super fast recovery times, high voltage

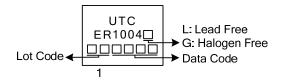
SYMBOL

ORDERING INFORMATION

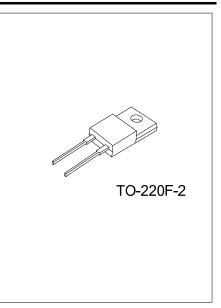
Ordering Number		Deekege	Pin Assignment		Deaking	
Lead Free	Halogen Free	Package	1	2	Packing	
ER1004L-TF32-R ER1004G-TF32-R		TO-220F-2	K	Α	Tape Reel	
Note: Pin Assignment: A: And	ode K: Common Cathode					

TGBR5L45L-TF32-R	
(1)Packing Type	(1) R: Tape Reel
(2)Package Type	(2) TF32: TO-220F-2
(3)Green Package	(3) L: Lead Free, G: Halogen Free and Lead Free

MARKING



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ABSOLUTE MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitance load, derate current by 20%.

SYMBOL	RATINGS	UNIT
V _{RRM}	400	V
V _{RMS}	280	V
Ι _Ο	10	А
I _{FSM}	150	А
ΤJ	-55~+150	°C
T _{STG}	-55~+150	°C
	V _{RRM} V _{RMS} I _O I _{FSM} T _J	V _{RRM} 400 V _{RMS} 280 I _O 10 I _{FSM} 150 T _J -55~+150

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ THERMAL CHARACTERISTICS (PER LEG)

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ _{JA}	62.5	°C/W
Junction to Case	θ _{JC}	5	°C/W

ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitance load, derate current by 20%

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage Drop	VF	I _F =10A			1.3	V
DC Reverse Current at Rated DC Blocking		T _J =25°C			10	μA
Voltage	IR	T _J =100°C			500	μA
Reverse Recovery Time (Note 2)	trr			50		ns
Junction Capacitance (Note 1)	CJ			62		pF

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1A, Irr=0.25A.



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