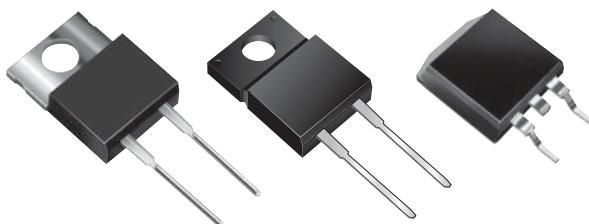
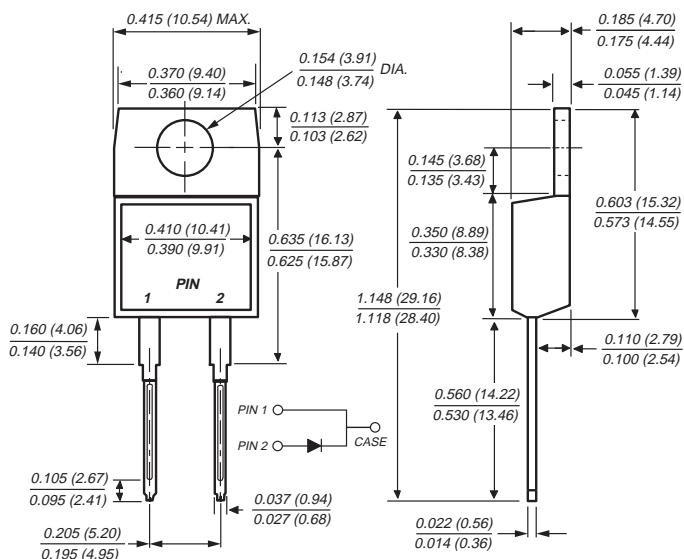
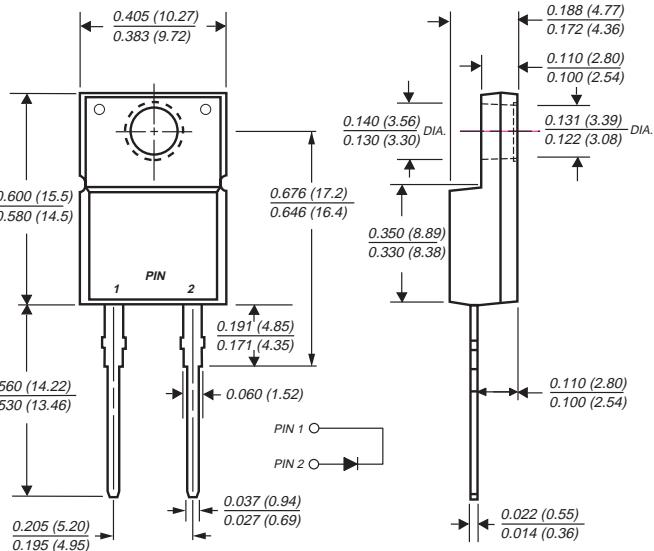
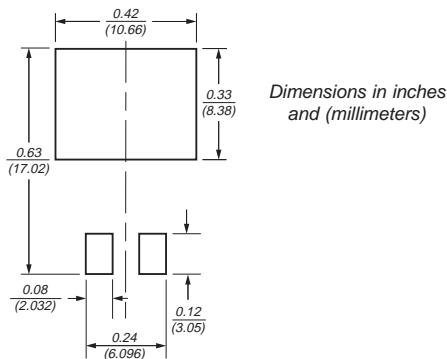
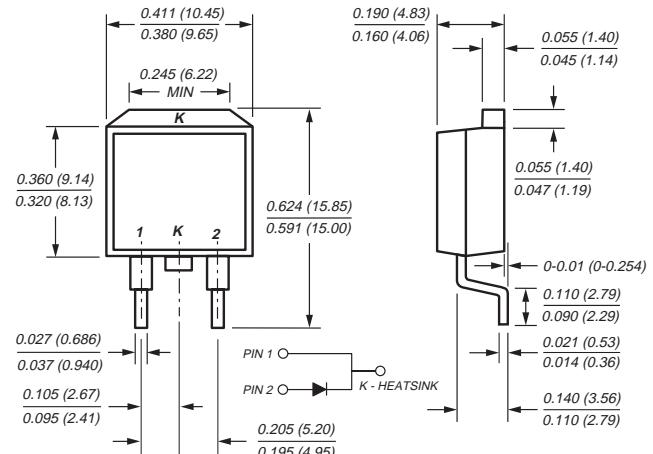


Ultrafast Rectifiers


TO-220AC (GUR5H60)

ITO-220AC (GURF5H60)

Mounting Pad Layout TO-263AB

TO-263AB (GURB5H60)


Features

- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- Ideally suited for freewheeling diode and power factor correction applications
- Low leakage
- Superfast recovery time for high efficiency
- Ideal for diode modulation and secondary DC/DC output rectification
- Glass passivated chip junction

Mechanical Data

Case: JEDEC TO-220AC, ITO-220AC & TO-263AB molded plastic body

Terminals: Plated leads, solderable per MIL-STD-750, Method 2026

High temperature soldering in accordance with CECC 802 / Reflow guaranteed

Polarity: As marked **Mounting Position:** Any

Mounting Torque: 10 in-lbs maximum

Weight: 0.08 oz., 2.24 g

Maximum Ratings ($T_c = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	600	V
Maximum working reverse voltage	V_{RWM}	480	V
Maximum RMS voltage	V_{RMS}	420	V
Maximum DC blocking voltage	V_{DC}	600	V
Maximum average forward rectified current	$I_{F(AV)}$	5.0	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) at $T_c = 100^\circ\text{C}$	I_{FSM}	90	A
Reverse Energy	E_R	10	mJ
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150	°C
RMS Isolation voltage (GURF types only) from terminals to heatsink with $t = 1.0$ second, $\text{RH} \leq 30\%$	V_{ISOL}	4500 ⁽¹⁾ 3500 ⁽²⁾ 1500 ⁽³⁾	V

Electrical Characteristics ($T_c = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Maximum instantaneous forward voltage ⁽⁴⁾ $I_F = 5\text{A}, T_J = 25^\circ\text{C}$ $I_F = 5\text{A}, T_J = 150^\circ\text{C}$	V_F	1.8 1.6	V
Maximum DC reverse current at V_{RWM} $T_J = 25^\circ\text{C}$ $T_J = 150^\circ\text{C}$	I_R	20 400	μA
Maximum reverse recovery time at $I_F = 0.5\text{A}, I_R = 1.0\text{A}, I_{rr} = 0.25\text{A}$	t_{rr}	30	ns

Thermal Characteristics ($T_c = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	GUR	GURF	GURB	Unit
Typical thermal resistance from junction to case	$R_{\theta JC}$	2	3	2	°C/W

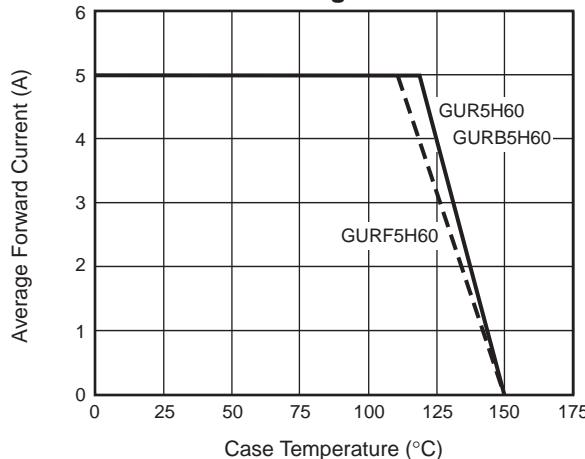
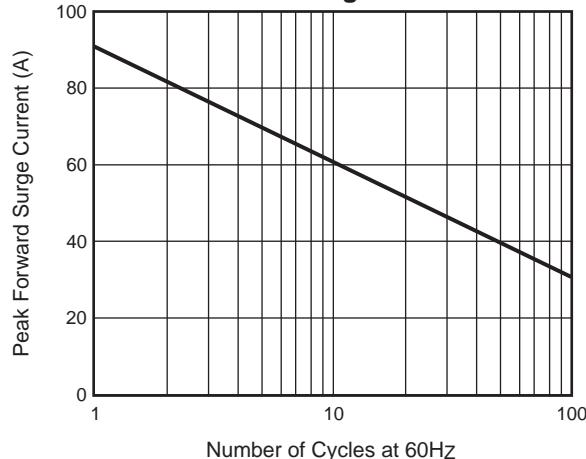
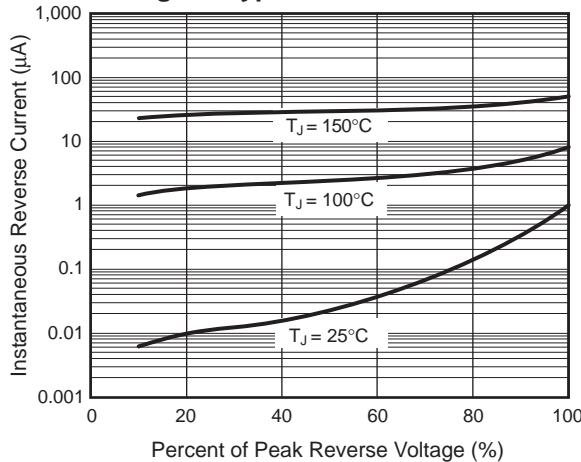
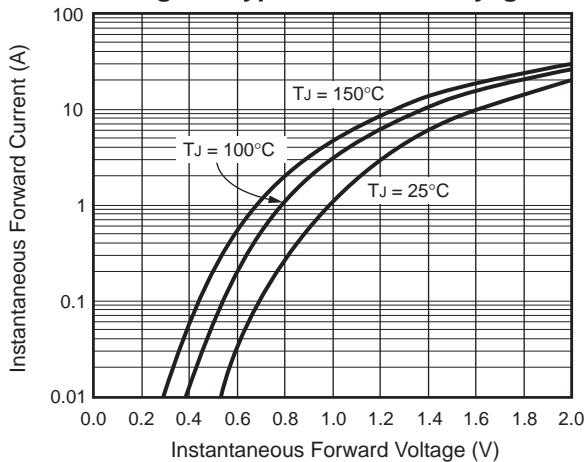
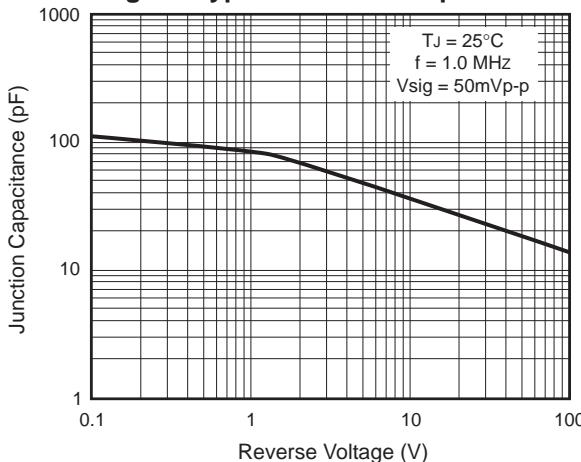
Notes: (1) Clip mounting (on case), where lead does not overlap heatsink with 0.110" offset
 (3) Screw mounting with 4-40 screw, where washer diameter is ≤ 4.9 mm (0.19")

(2) Clip mounting (on case), where leads do overlap heatsink
 (4) Pulse test: 300μs pulse width, 1% duty cycle

Ordering Information

Product	Case	Package Code	Package Option
GUR5H60	TO-220AC	45	Anti-Static tube, 50/tube, 2K/carton
GURF5H60	ITO-220AC	45	Anti-Static tube, 50/tube, 2K/carton
GURB5H60	TO-263AB	31 45 81	13" reel, 800/reel, 4.8K/carton Anti-Static tube, 50/tube, 2K/carton Anti-Static 13" reel, 800/reel, 4.8K/carton

Ratings and Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig. 1 – Forward Current Derating Curve

Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current

Fig. 3 – Typical Reverse Current

Fig. 4 – Typical Forward Volage

Fig. 5 – Typical Junction Capacitance


单击下面可查看定价，库存，交付和生命周期等信息

[>>Vishay\(威世\)](#)