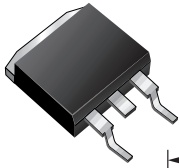


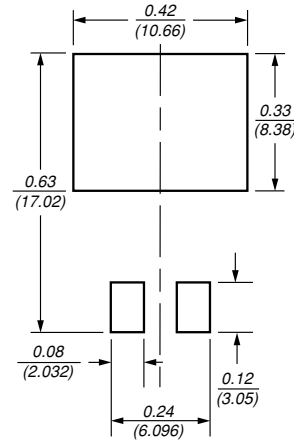
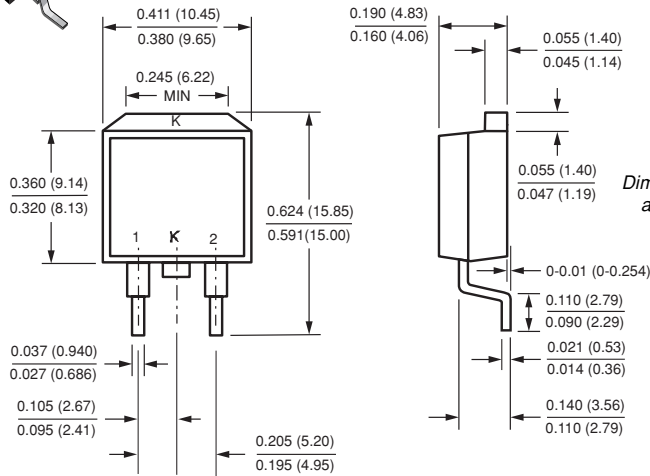


Dual Ultrafast Plastic Rectifier

Reverse Voltage 50 to 200V
Forward Current 8.0A

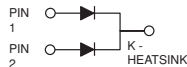


TO-263AB



Mechanical Data

Case: JEDEC TO-263AB molded plastic body
Terminals: Plated lead solderable per MIL-STD-750, Method 2026
Polarity: As marked **Mounting Position:** Any
Weight: 0.05 oz., 1.35 g



Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Dual rectifier construction, positive centertap
- Glass passivated chip junctions
- Low power loss • High surge current capability
- Superfast recovery times for high efficiency
- High temperature soldering in accordance with CECC 802 / Reflow guaranteed

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	GIB2401	GIB2402	GIB2403	GIB2404	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	150	200	V
Maximum RMS voltage	V _{RMS}	35	70	105	140	V
Maximum DC blocking voltage	V _{DC}	50	100	150	200	V
Maximum average forward rectified current at T _C = 125°C	I _{F(AV)}	16				A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) per leg at T _C =100°C	I _{FSM}	125				A
Typical thermal resistance per leg (Note 1)	R _{θJC}	1.2				°C/W
Operating storage and temperature range	T _J , T _{STG}	-65 to +150				°C

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Maximum instantaneous forward voltage per leg at	I _F = 4A, T _J = 25°C I _F = 8A, T _J = 25°C I _F = 4A, T _J = 100°C I _F = 8A, T _J = 100°C	V _F	0.900 0.975 0.800 0.895		V
Maximum DC reverse current per leg at rated DC blocking voltage	T _C = 25°C T _C = 100°C	I _R	50 150	5.0 500	μA
Maximum reverse recovery time per leg at I _F = 0.5A, I _R = 1.0A, I _{rr} = 0.25A		t _{rr}	35		ns
Typical junction capacitance per leg at 4V, 1MHz		C _J	85		pF

Notes: (1) Thermal resistance from junction to case per leg mounted on heatsink

Vishay Semiconductors
formerly General Semiconductor

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

Fig. 1 – Maximum Forward Current Derating Curve

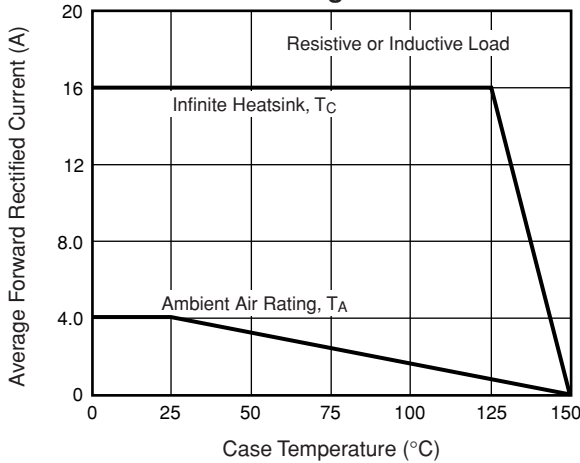


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current Per Leg

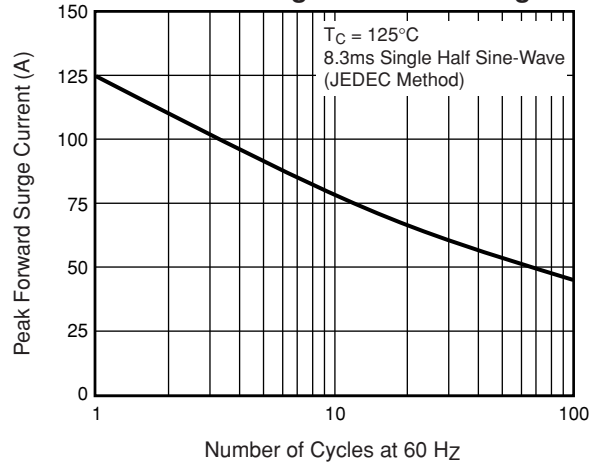


Fig. 3 – Typical Instantaneous Forward Characteristics Per Leg

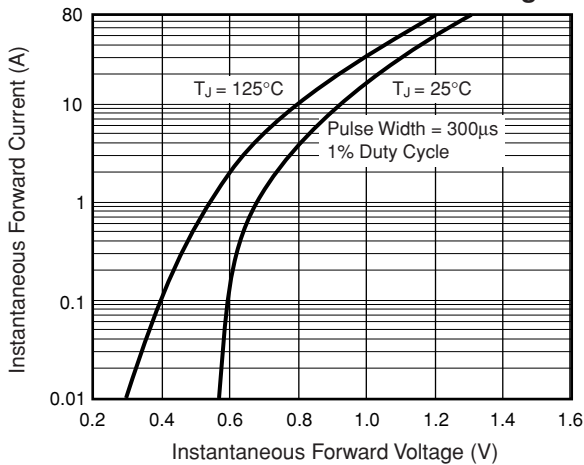


Fig. 4 – Typical Reverse Leakage Characteristics Per Leg

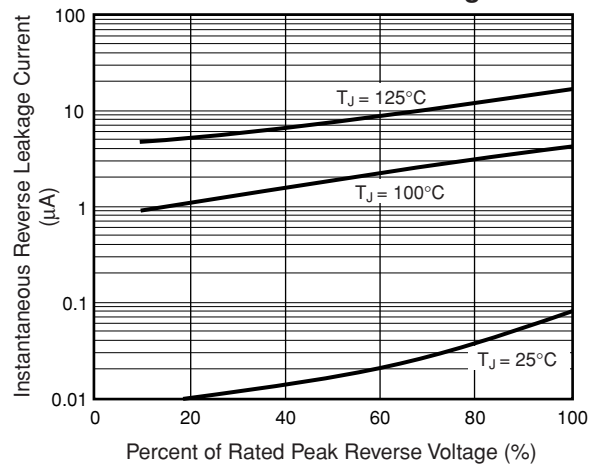


Fig. 5 – Typical Junction Capacitance Per Leg

