Voltage Range 35 V
Current 8.0 Ampere

Features

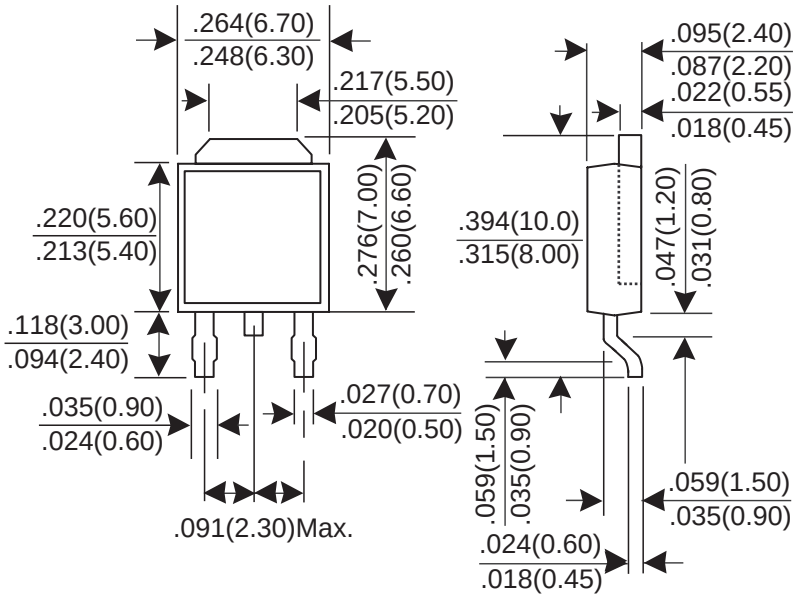
- ✶ Low forward voltage drop
- ✶ High current capability
- ✶ High reliability
- ✶ High surge current capability

Mechanical Data

- ✶ Case: Molded plastic D-PAK
- ✶ Epoxy: UL 94V-0 rate flame retardant
- ✶ Terminals: Solderable per MIL-STD-202 method 208
- ✶ Polarity:Color band denotes cathode end
- ✶ Mounting position: Any
- ✶ Weight: 0.4 gram

Dimensions in inches and (millimeters)

D-PAK



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMTER	SYBMOL	TMBRD835L	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	35	V
Maximum RMS Voltage	V_{RMS}	25	V
Maximum DC Blocking Voltage	V_{DC}	35	V
Maximum Average Forward Rectified Current T_C=88°C	$I_{F(AV)}$	8.0	A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	75	A
Maximum Instantaneous Forward Voltage @ 8.0 A	V_F	0.5	V
Maximum DC Reverse Current @T_J=25°C	I_R	0.5 10	uA
Typical junction Capacitance (Note 1)	C_J	600	pF
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +125 / -55 to +150	°C

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

RATING AND CHARACTERISTIC CURVES

FIG.1 - FORWARD CURRENT DERATING CURVE

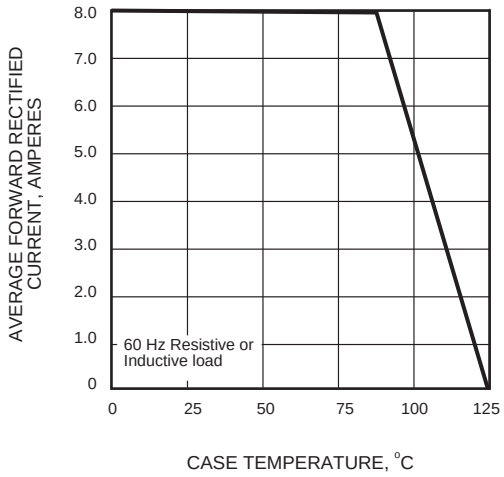


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

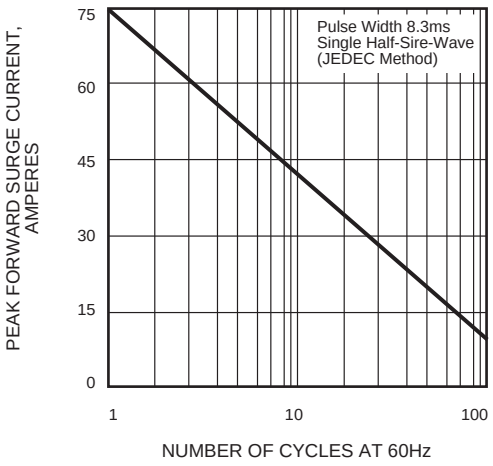


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

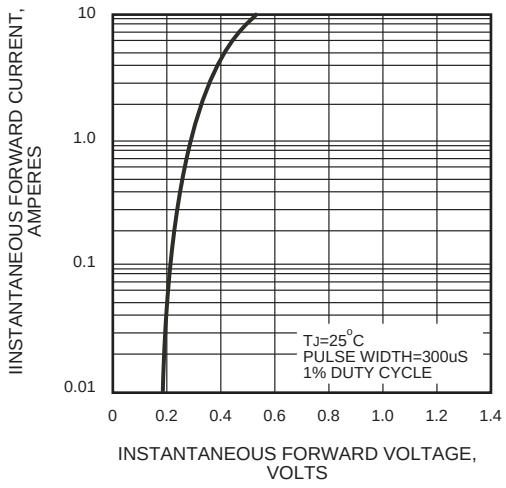


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

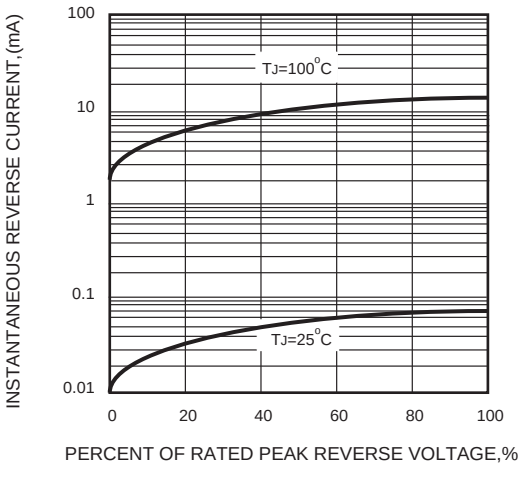


FIG.5 - TYPICAL JUNCTION CAPACITANCE