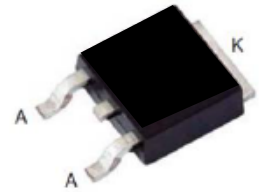


## Features

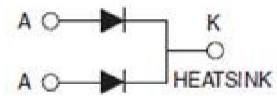
- Plastic package has underwriters Laboratory Flammability Classification 94V-0
- Dual rectifier construction, positive center tap
- Metal of silicon rectifier, majority carrier conduction
- Low forward voltage, high efficiency
- Guarding for over voltage protection



Package: TO-252 (DPAK)

## Mechanical Data

- Case: Epoxy, Molded
- Weight: 0.4grams(approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 sec
- Shipped 2500 units per reel



Schematic Diagram

## Maximum Ratings & Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

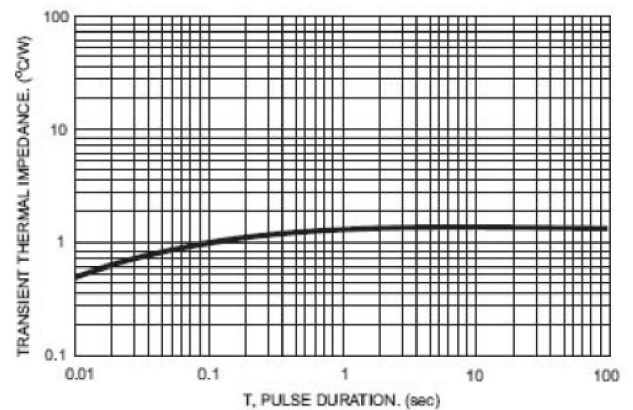
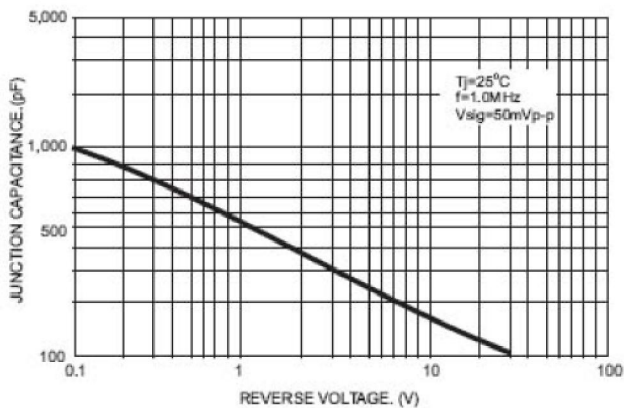
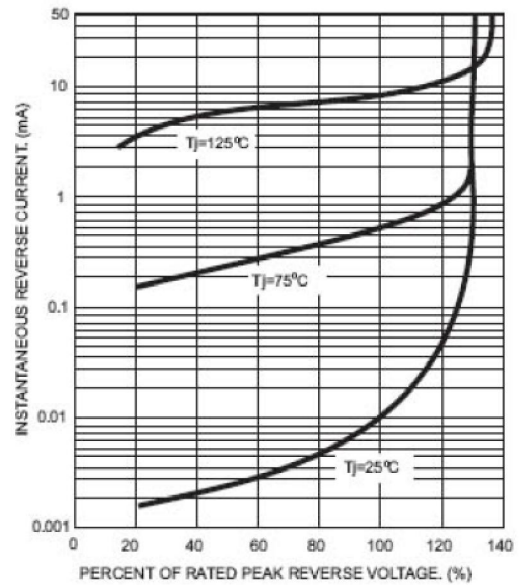
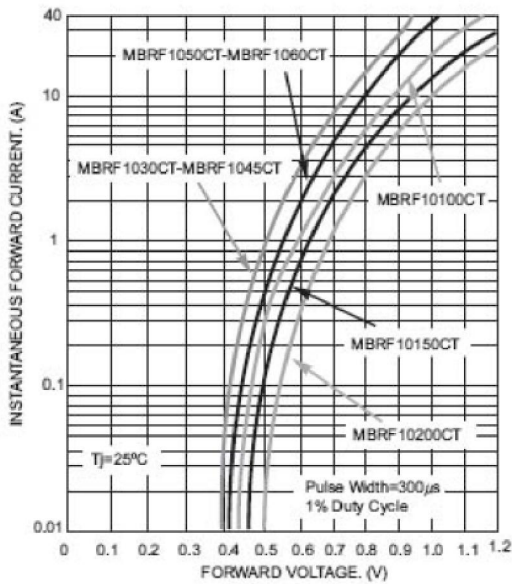
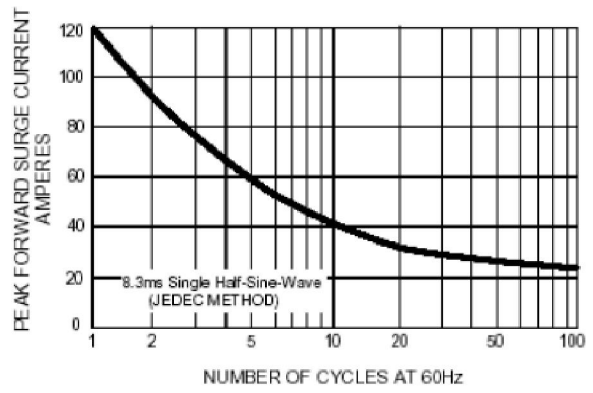
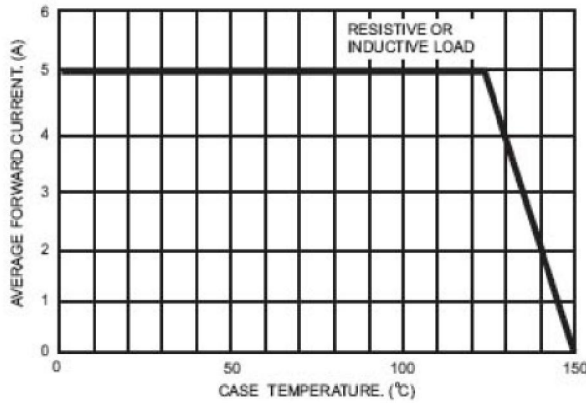
Parameter	Test Conditions	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage		V <sub>RRM</sub>	45	V
Working Peak Reverse Voltage		V <sub>RWM</sub>	45	V
Maximum DC Blocking Voltage		V <sub>DC</sub>	45	V
Maximum Vverage Forward Rectified Current at T <sub>c</sub> =105°C Total Device per Diode		I <sub>F(AV)</sub>	10 5	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load per Diode		I <sub>FSM</sub>	120	A
Voltage Rate of Change(rated V <sub>R</sub> )		DV/dt	10000	V/us
Peak Repetitive Reverse Current per Leg at t <sub>p</sub> =2.0us ,1KHz		I <sub>RRM</sub>	1.0	A
Operating Junction Temperature Range		T <sub>J</sub>	-55 to+150	°C
Storage Temperature Range		T <sub>STG</sub>	-55 to+150	°C
Isolation Voltage (ITO-220-AB only) from Terminal to Heatsink t = 1 sec		V <sub>AC</sub>	1500	V
Maximum Instantaneous Forward Voltage per Leg	I <sub>F</sub> =5A T <sub>C</sub> =25°C I <sub>F</sub> =5A T <sub>C</sub> =125°C	V <sub>F</sub>	0.55 0.50	V
Maximum Reverse Current per Leg at Working Peak Reverse Voltage	T <sub>J</sub> =25°C T <sub>J</sub> =100°C	I <sub>R</sub>	200 15	uA uA

## Thermal Characteristics

Parameter	Symbol	Value	Unit
Thermal Resistance, Junction to Case per Leg	R <sub>θJC</sub>	3.5	°C /W
Thermal Resistance, Junction to Ambient per Leg	R <sub>θJA</sub>	62.5	°C /W

Note: Pulse test:300us pulse width, duty cycle=2%

## Typical Characteristics Curves



## Package Outline Dimensions TO-252 (D-PAK)

