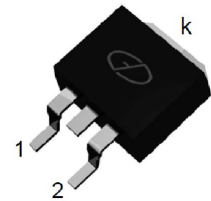


Features

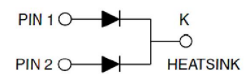
- Plastic package has underwriters Laboratory Flammability Classification 94V-0
- Dual rectifier construction, positive center tap
- Low forward voltage, high efficiency
- Guarding for over voltage protection



Package: TO-263

Mechanical Data

- Case: epoxy, molded
- Weight: 1.4grams (approximately)
- Lead temperature for soldering purpose: 260°C max. for 10 sec
- 50 units per plastic tube or tape reel packing 800pcs/reel



Schematic Diagram

Maximum Ratings & Electrical Characteristics

(T_A=25°C unless otherwise noted)

Parameter	Test Conditions	Symbol	Value	Unit	
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	45	V	
Working Peak Reverse Voltage		V _{RWM}	45	V	
Maximum DC Blocking Voltage		V _{DC}	45	V	
Maximum Average Forward Rectified Current @ T _c =105°C	Total Device Per Diode	I _{F(AV)}	40 20	A	
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load per Diode		I _{FSM}	250	A	
Peak repetitive Reverse Current Per Leg at tp=2.0μs ,1KHz		I _{RRM}	2.0	A	
Voltage Rate of Change (rated V _R)		DV/dt	10000	V/μs	
Operating Junction Temperature Range		T _J	- 55 to+150	°C	
Storage Temperature Range		T _{STG}	- 55 to+150	°C	
Maximum Instantaneous Forward Voltage per Leg	I _F =20A I _F =20A	T _C =25°C T _C =125°C	V _F	0.55 (0.50 typ) 0.45	V
Maximum Reverse Current per Leg at Working Peak Reverse Voltage		T _J =25°C T _J =100°C	I _R	500 50	μA mA
Thermal Characteristics (T_A=25°C unless otherwise noted)					
Symbol	Parameter	Typ.(TO-263)		Unit	
R _{θJC}	Thermal Resistance, Junction to Case per Leg	2.0		°C/W	
R _{θJA}	Thermal Resistance, Junction to Ambient per Leg	62.5		°C/W	

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

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

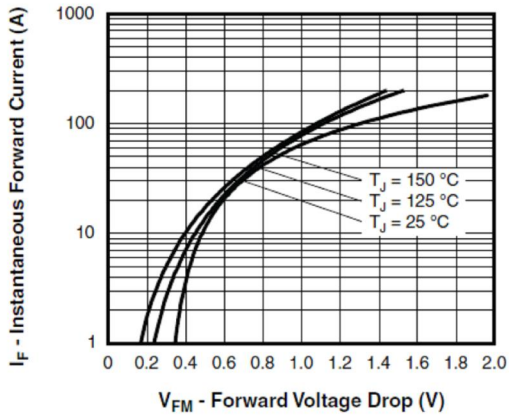


Fig. 1 - Maximum Forward Voltage Drop Characteristics (Per Leg)

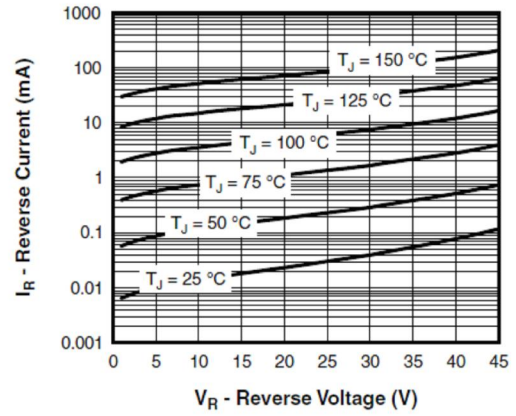


Fig. 2 - Typical Values of Reverse Current vs. Reverse Voltage (Per Leg)

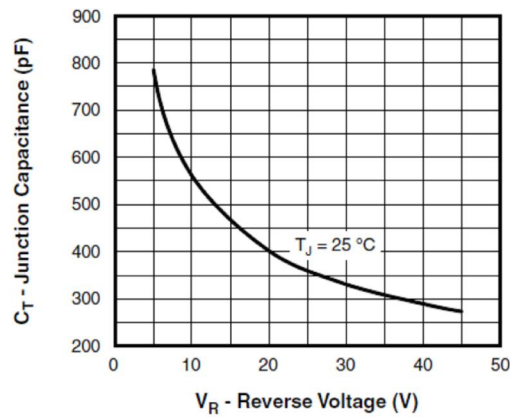
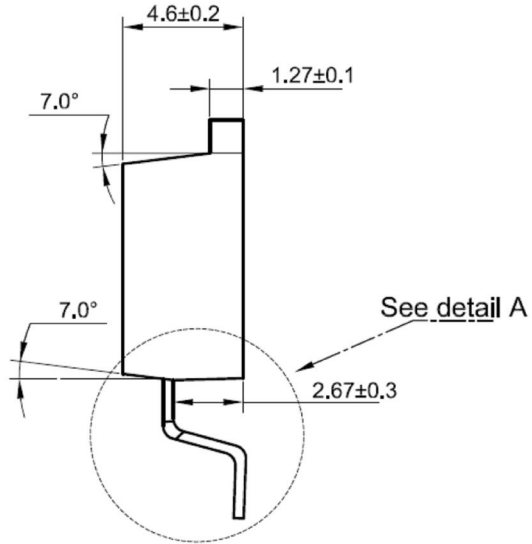
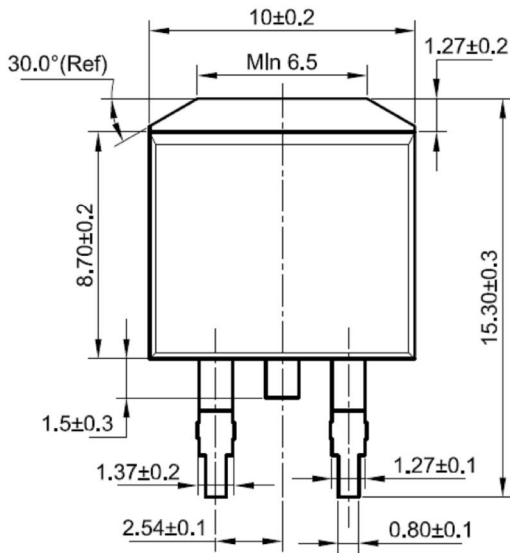


Fig. 3 - Typical Junction Capacitance vs. Reverse Voltage (Per Leg)

Package Outline Dimensions

in millimeters

TO-263



Detail A

