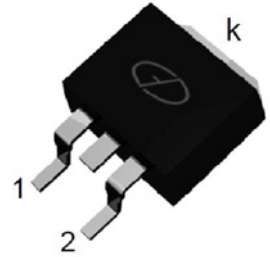
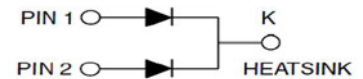


Features

- 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-263 (D²PAK)



Mechanical Data

- Case: Epoxy, molded
- Weight: 1.4grams (approximately)
- Finish: All external surfaces corrosion resistant and terminal leads are readily solderable
- Lead temperature for soldering purpose: 260°C Max. for 10 sec

Maximum Ratings & Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	TEST CONDITIONS	SYMBOL	Value	UNIT
Maximum Repetitive Peak Reverse Voltage	-	V _{RRM}	100	V
Working Peak Reverse Voltage	-	V _{RWM}	100	V
Maximum DC Blocking Voltage	-	V _{DC}	100	V
Maximum Average Forward Rectified Current at T _C =105°C Total Device per Diode	-	I _{F(AV)}	30 15	A
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load per Diode	-	I _{FSM}	200	A
Peak Repetitive Reverse Current per Leg at tp=2.0us ,1KHz	-	I _{RRM}	2.0	A
Voltage Rate of Change (Rated V _R)	-	D _{V/dt}	10000	V/us
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 =15A T _C =25°C I _F =15A T _C =125°C	V _F	0.85 0.75	V
Maximum Reverse Current per Leg at Working Peak Reverse Voltage	- T _J =25°C T _J =100°C	I _R	200 15	uA mA
Thermal Characteristics T_A=25°C unless otherwise noted				
Parameter	Symbol	TYP	Unit	
Thermal Resistance, Junction to Case per Leg	R _{θJC}	2.0	°C /W	
Thermal Resistance, Junction to Ambient per Leg	R _{θJA}	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)

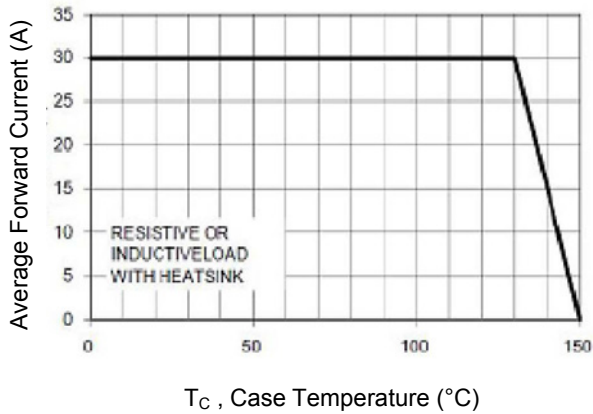


Figure 1. Forward Current Derating Curve

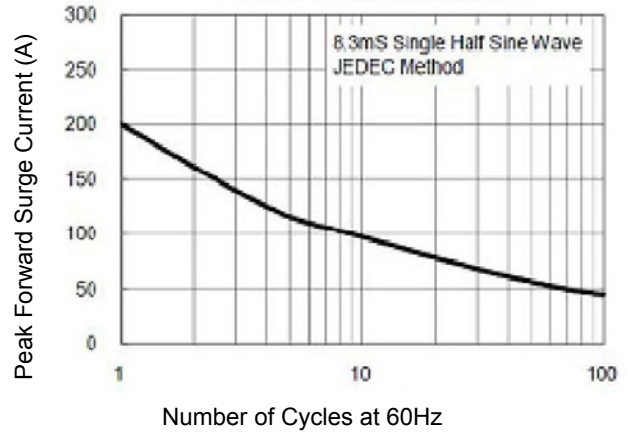


Figure 2. Max Non-Repetitive Forward Surge Current per Leg

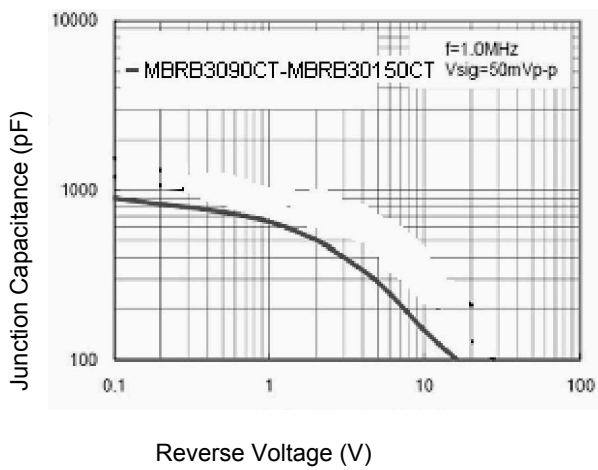


Figure 3. Typical Junction Capacitance per Leg

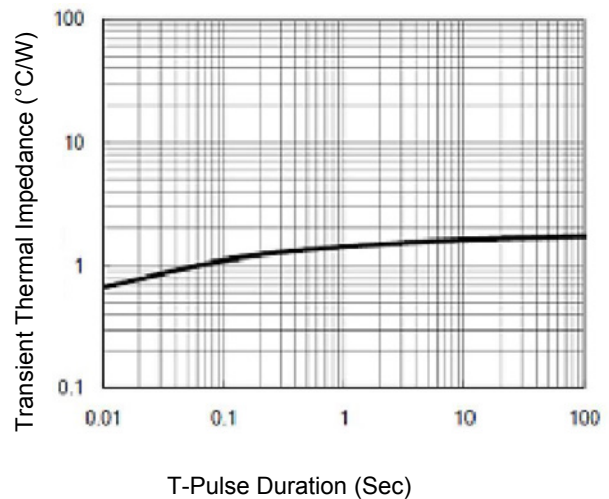
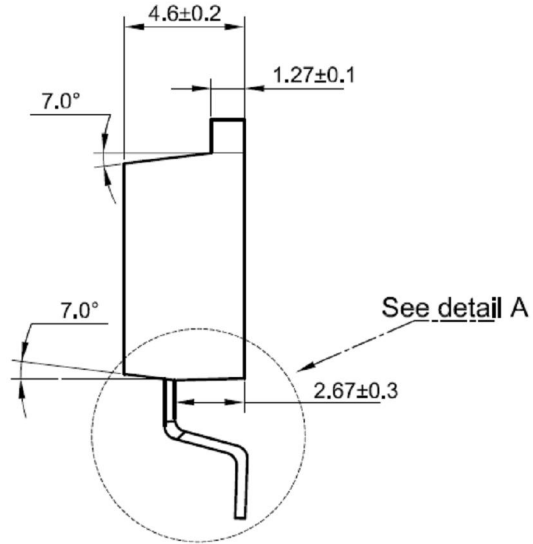
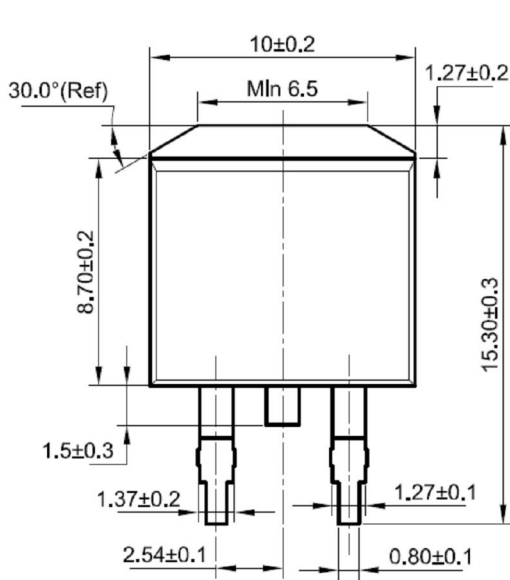


Figure 4. Typical Transient Thermal Impedance per Leg

Package Outline Dimensions TO-263 (D²PAK)



Detail A

