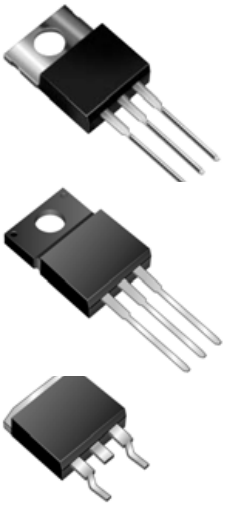
Dual Schottky Barrier Rectifiers
Reverse Voltage 100 Volts Forward Current 40.0 Amperes

Features

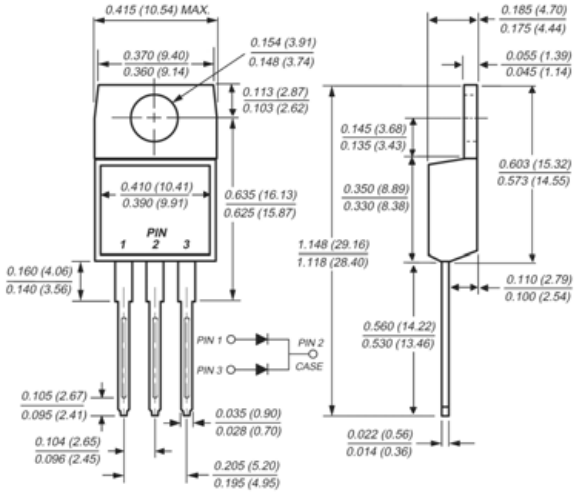
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Dual rectifier construction, positive center tap
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- Guardring for overvoltage protection
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed: 250°C/10 seconds, 0.25" (6.35mm) from case



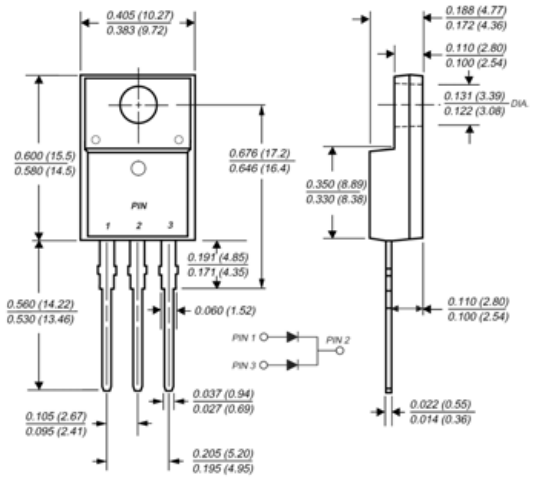
Mechanical Data

- Case: JEDEC TO-22B, TO-220F , TO-263 molded plastic body
- Terminals: Plated leads, solderable per MIL-STD-750, Method 2026
- Polarity: As marked
- Mounting Position: Any
- Mounting Torque: 10 in-lbs maximum
- Weight: 0.08 ounce, 2.24 grams

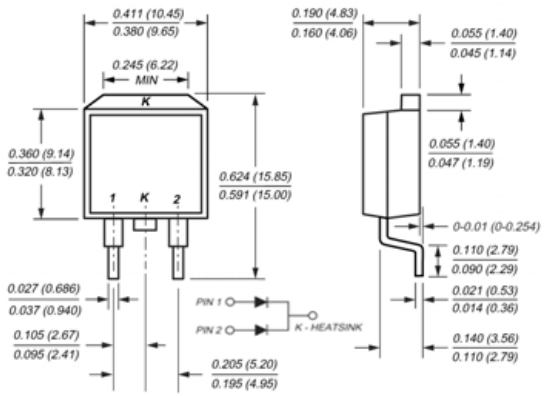
TO-220



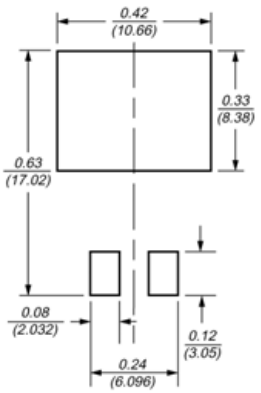
TO-220F



TO-263(D²PAK)



Mounting Pad Layout TO-263



Dimensions in inches and (millimeters)

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{RRM}	Peak repetitive reverse voltage	100	V
V_{RWM}	Working peak reverse voltage		
V_R	DC blocking voltage		
$V_{R(RMS)}$	RMS reverse voltage	70	V
I_O	Average rectified output current	40	A
I_{FSM}	Non-Repetitive peak forward surge current 8.3ms half sine wave	280	A
P_D	Power dissipation	2	W
$R_{\Theta JA}$	Thermal resistance from junction to ambient	50	℃/W
T_j	Junction temperature	125	℃
T_{stg}	Storage temperature	-55~+150	℃

ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	I_R=1mA	100			V
Reverse current	I_R	V_R=100V			0.1	mA
Forward voltage	V_{F1}	I_F=20A			0.95	V
	V_{F2}*	I_F=40A			1.1	V
Typical total capacitance	C_{tot}	V_R=4V,f=1MHz		300		pF

*Pulse test

Rating and Characteristic Curves

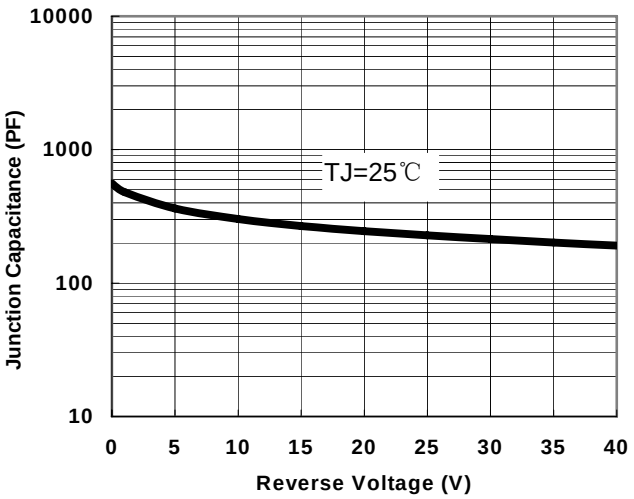


Fig.1-Typical Junction Capacitance

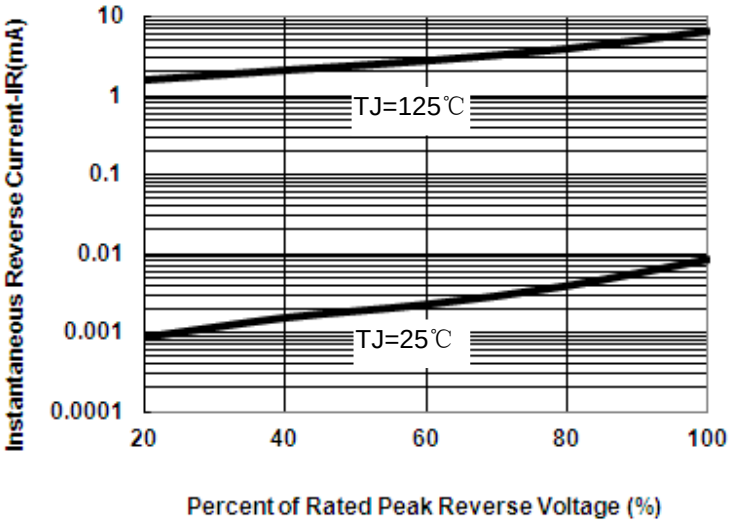


Fig.2-Typical Reverse Characteristics

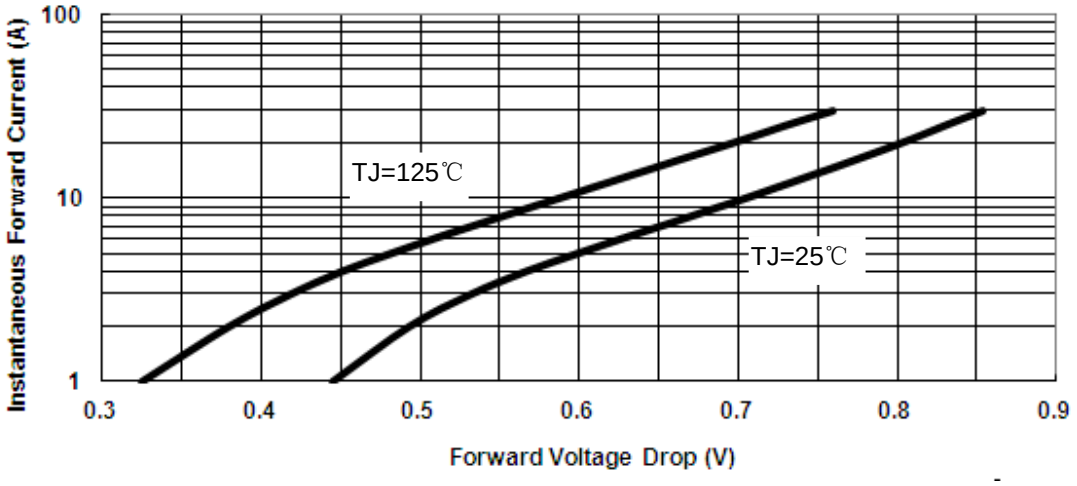


Fig.3-Typical Instantaneous Forward Voltage Characteristics