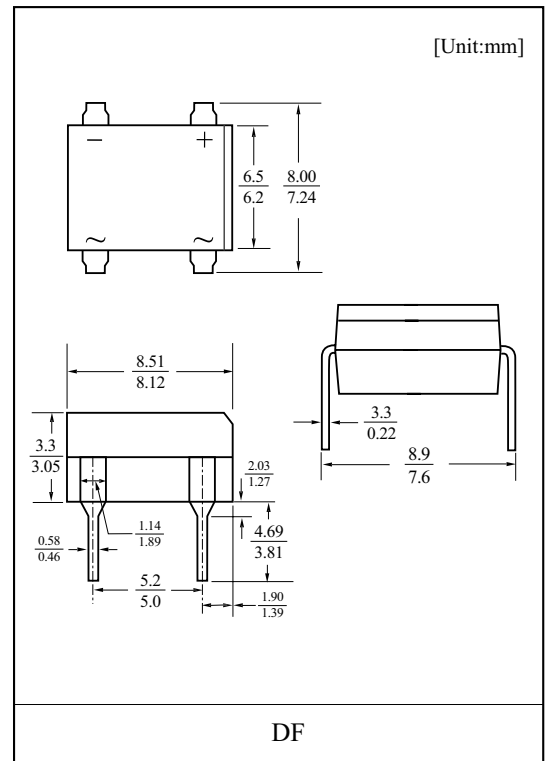


FEATURES

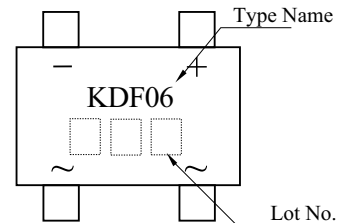
- Plastic package has Underwriters Laboratory flammability Classification 94V-0.
- Glass passivated chip junction.
- High surge overload rating : 50A peak.
- Ideal for printed circuit boards.
- High temperature soldering guaranteed : 260 °C/10 seconds, at 2.3kg tension.

MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive peak reverse voltage	V_{RRM}	600	V
RMS voltage	V_{RMS}	420	V
DC blocking voltage	V_{DC}	600	V
Average forward output rectified current at Ta=40 °C	$I_{F(AV)}$	1	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load $T_L=110$ °C	I_{FSM}	50	A
Rating for fusing (t<8.3ms)	I^2t	10	A ² sec
Operating Junction and Storage Temperature Range	T_j, T_{stg}	-55~150	°C



Marking



ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	CONDITION	MIN	TYP	MAX	UNIT
Forward voltage	V_F	$I_F=1A$	-	-	1	V
Leakage current	I_R	$V_R=600V$	-	-	5	μA
					100	
Junction capacitance	C_J	$V_R=4.0V, f=1.0MHz$	-	25	-	pF
Thermal resistance	$R_{th(A)}$ (Note1)	Junction to ambient	-	-	40	°C/W
	$R_{th(L)}$ (Note1)	Junction to lead	-	-	15	

Note 1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B with (13 × 13mm) copper pads.

Fig.1 Derating Curve Output Rectified Current

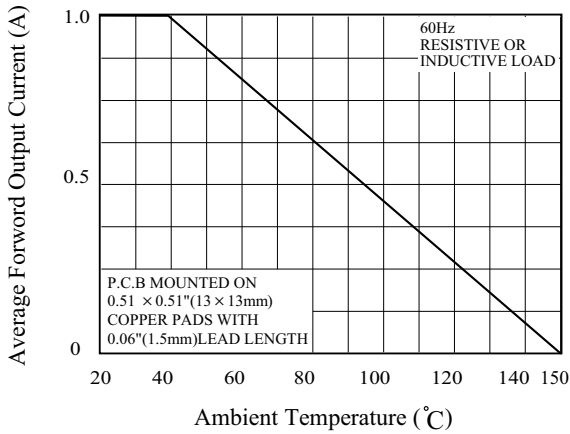


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current Per Leg

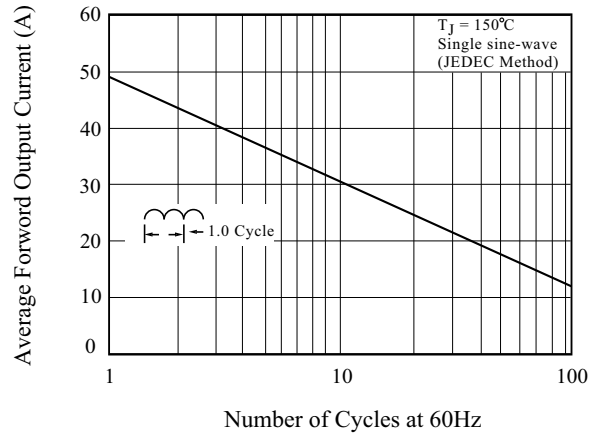


Fig.3 Typical Forward Characteristics Per Leg

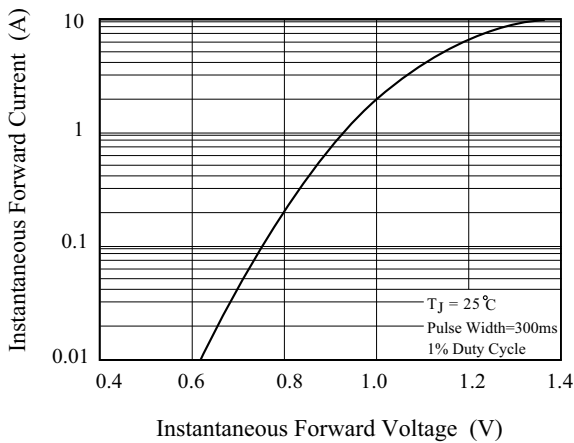


Fig.4 Typical Reverse Leakage Characteristics Per Leg

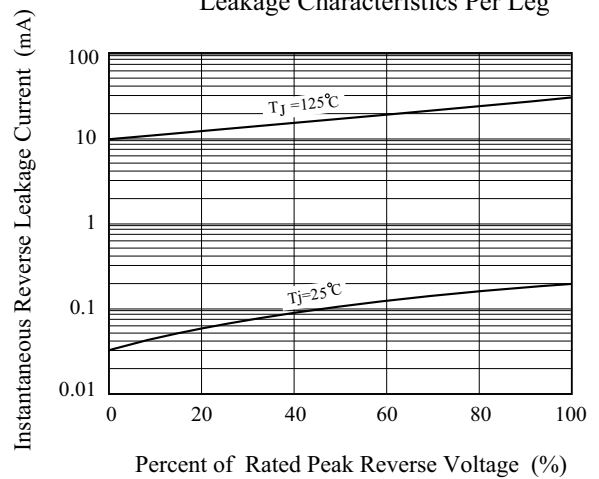


Fig.5 Typical Junction Capacitance Per Leg

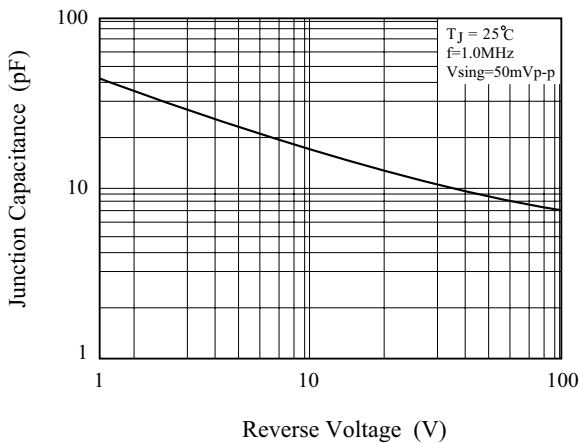


Fig.6 Typical Transient Thermal Impedance

