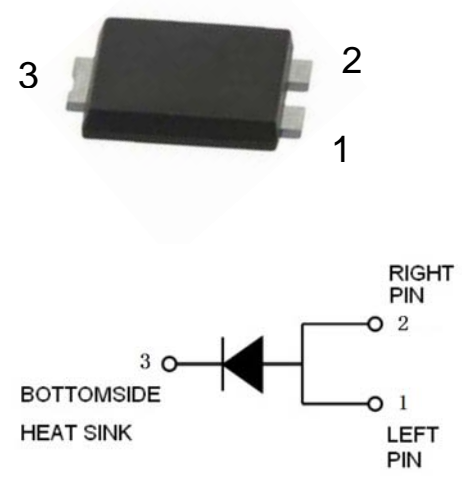


TO-277


CH10100T

Features:

- High current capacity, low forward voltage.
- Excellent high temperature stability.
- Low power loss, high efficiency
- High forward surge capacity.
- RoHS compliant, and Halogen free.



Absolute Maximum Ratings (Ta=25°C unless otherwise noted)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Recurrent Peak Reverse Voltage	V_{RRM}	$I_R=0.5mA$	100	-	-	V
Average Forward Current	$I_{F(AV)}$	$V_R=100V@T_j=25^\circ C$	-	10	-	A
Peak Forward Surge Current, 8.3ms single half sine-wave	I_{FSM}	$V_R=100V@T_j=25^\circ C$	-	-	180	A
Forward Voltage(Note1)	V_F	$I_F=10A$	-	0.78	0.83	V
Reverse Leakage Current(Note1)	I_R	$V_R=100V@T_j=25^\circ C$	-	-	0.1	mA
		$V_R=100V@T_j=100^\circ C$	-	-	20	
Operating Junction Temperature	T_j	-	-	-	175	°C
Storage Temperature Range	T_{stg}	-	-40	-	175	
Thermal Resistance(Note2)	$R_{th(JA)}$	-	-	31	-	°C/W

Note 1: Pulse test width PW=300usec. 1%duty cycle

Note 2: Polymide PCB, 2oz. copper. Cathode pad dimensions 18.8*14.4mm. Anode pad dimensions 5.6*14.1mm

Typical Characteristics

RATING AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

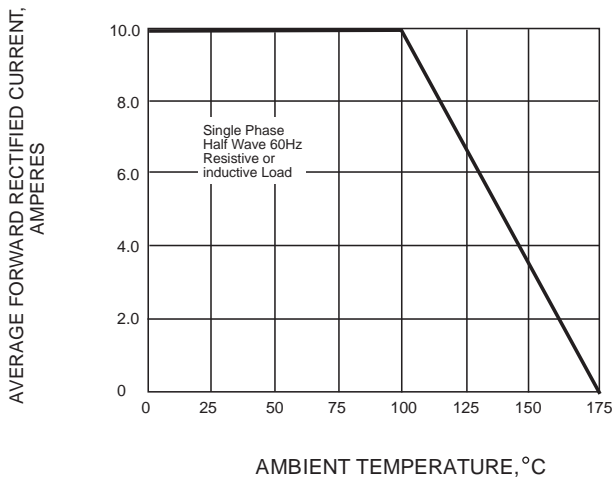


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

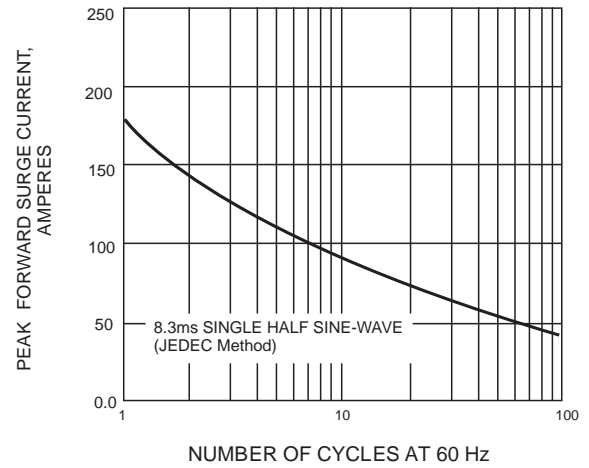


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

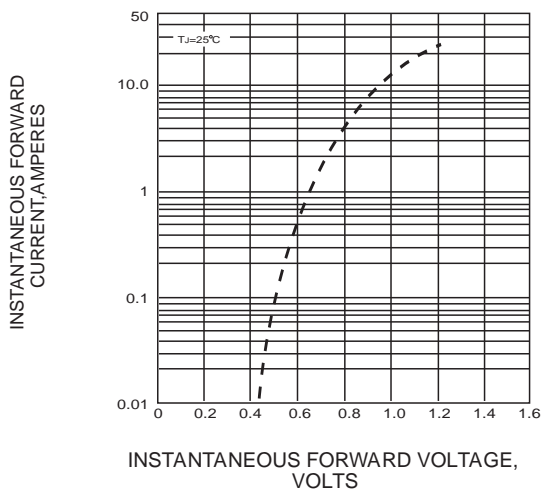
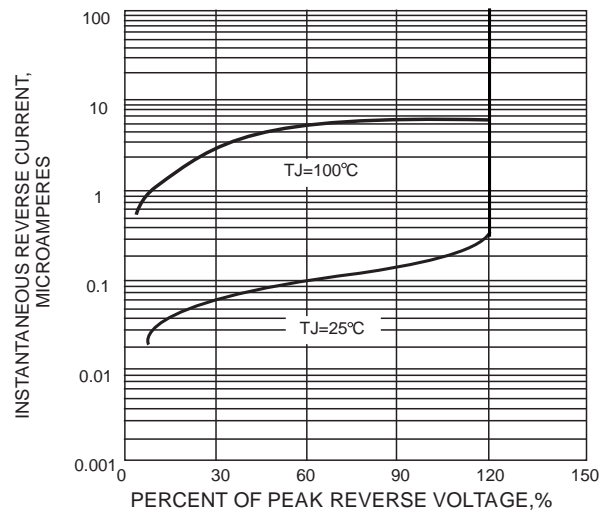


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



Package Dimension

TO-277

Units: mm

