

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

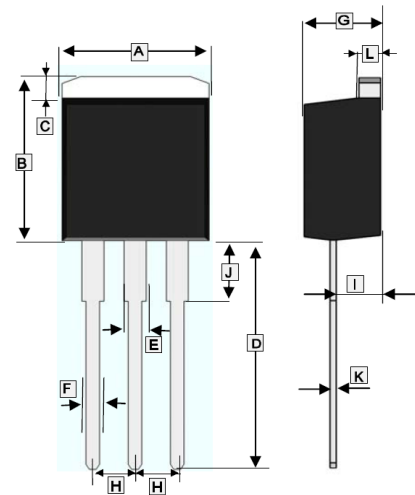
FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

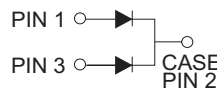
MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: Lead solderable per MIL-STD-202 method 208 guaranteed
- Polarity: As Marked
- Mounting position: Any
- Weight: 2.24 grams (approximate)

TO-262



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	9.80	10.31	G	4.40	4.85
B	9.60	10.50	H	2.54	BSC
C	1.19	1.40	I	2.5	2.9
D	13.4	14.3	J	3.50	4.50
E	1.10	1.45	K	0.25	0.56
F	0.68	0.91	L	1.10	1.40



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter		Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	45	V
Maximum RMS voltage		V_{RMS}	31.5	V
Maximum DC Blocking Voltage		V_{DC}	45	V
Maximum Average Forward Rectified Current	Per Leg	I_F	5	A
	Per Device		10	
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	100	A
Maximum Instantaneous Forward Voltage @ $I_F=5A$		V_F	0.55	V
Maximum DC Reverse Current at Rated DC Blocking Voltage ³	$T_C=25^\circ C$	I_R	0.5	mA
	$T_C=100^\circ C$		20	
Typical Junction Capacitance ¹		C_J	250	pF
Typical Thermal Resistance ²		$R_{\theta JC}$	3	°C / W
Operating Temperature Range T_J		T_J	-50~125	°C
Storage Temperature Range T_{STG}		T_{STG}	-55~150	°C

Notes:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Case.
3. Pulse test: 300µs pulse width, 1% duty cycle.

RATINGS AND CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

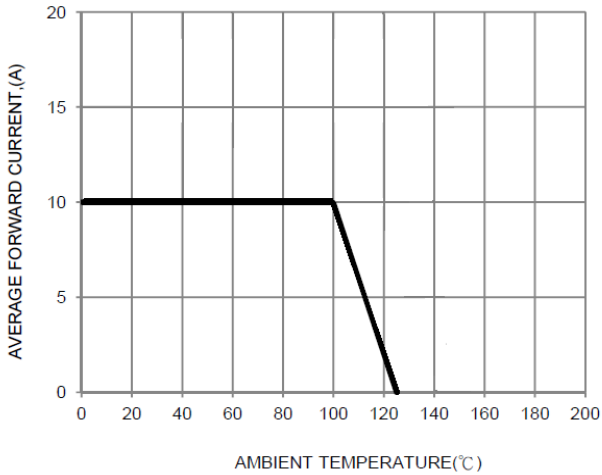


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

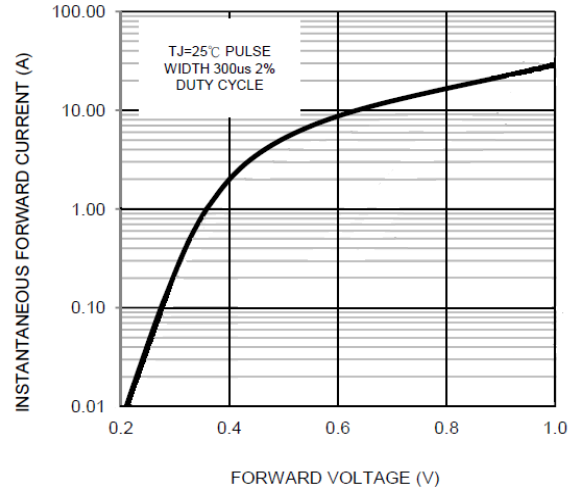


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

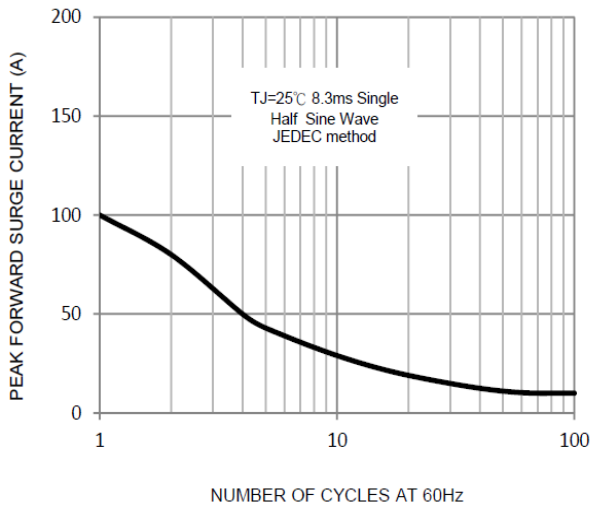


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

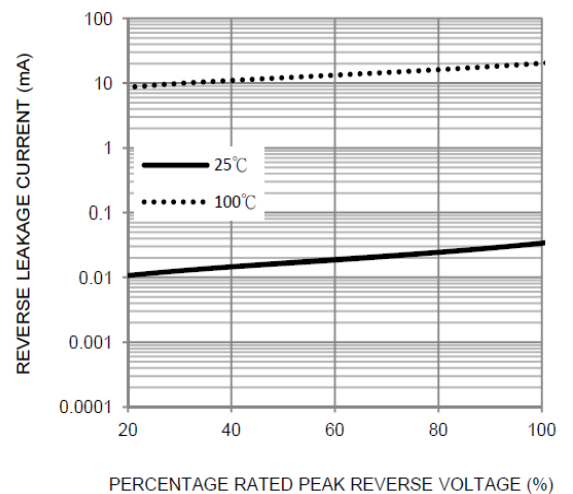


FIG. 5-TYPICAL JUNCTION CAPACITANCE

