

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

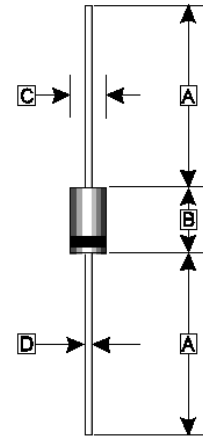
FEATURES

- Guardring for overvoltage protection
- Very small conduction losses
- Low forward voltage drop
- Component in accordance to RoHS 2002/95/EC

MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 1.071 g (Approximate)

DO-27(DO-201)



REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	7.20	9.53
C	4.80	5.60
D	1.10	1.32

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	V
Maximum RMS Voltage	V _{RMS}	70	V
Maximum DC Blocking Voltage	V _{DC}	100	V
Maximum Average Forward Rectified Current	I _F	10	A
Peak Forward Surge Current, 8.3 ms single half sine-wave Superimposed on rated load (JEDEC method)	I _{FSM}	100	A
Typical Thermal Resistance ¹	R _{θJL}	12	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55~150	°C

ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Typ.	Max.	Unit	Test Condition
Maximum Instantaneous Forward Voltage	V _F	0.44	-	V	I _F =2A, T _A =25°C
		-	0.67		I _F =10A, T _A =25°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	-	0.2	mA	T _A =25°C
		-	20		T _A =100°C
Typical Junction Capacitance ²	C _J	545	-	pF	

Notes:

1. The testing condition of the thermal resistance (junction to lead) is based on 0mm lead between two 10cm x 10cm x 1mm copper pad.
2. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC.

RATINGS AND CHARACTERISTIC CURVES

FIG. 1-Typical Forward Current Derating Curve

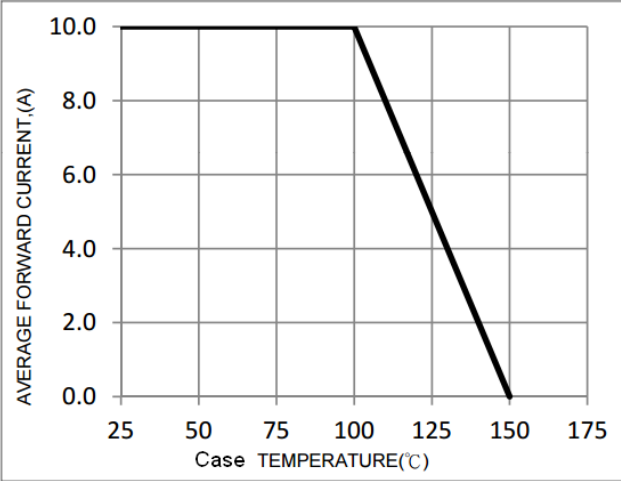


FIG. 2-Typical Forward Characteristics

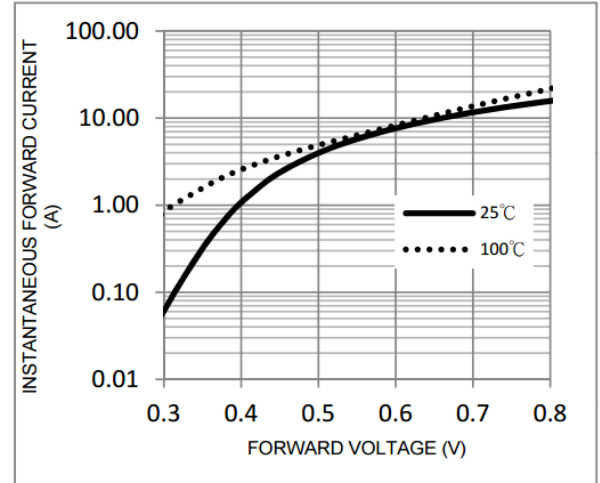


FIG. 3-Maximum Non-Repetitive Forward Surge Current

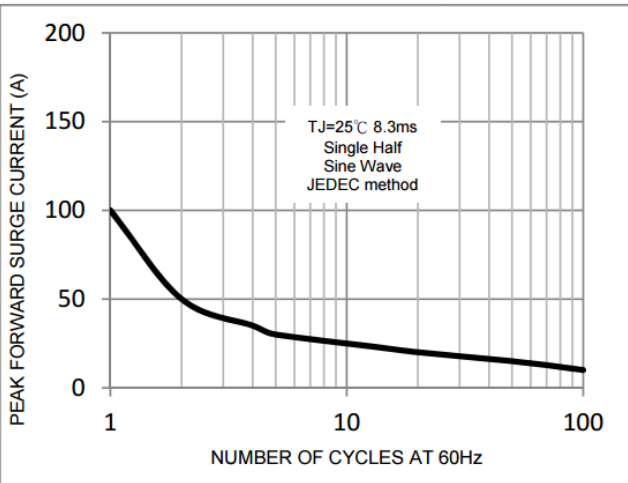


FIG. 4-Typical Reverse Characteristics

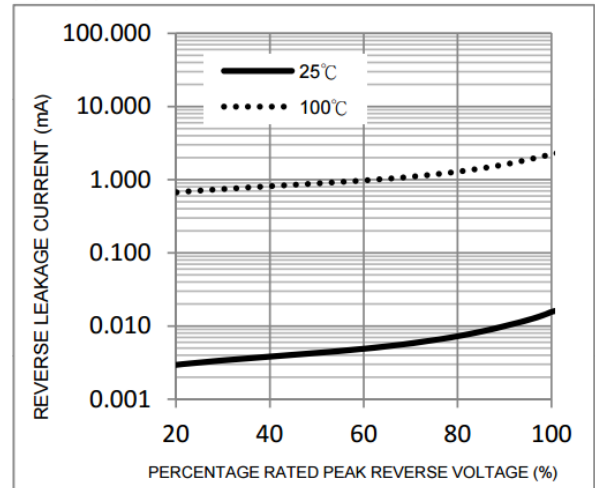


FIG. 5-Typical Junction Capacitance

