

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

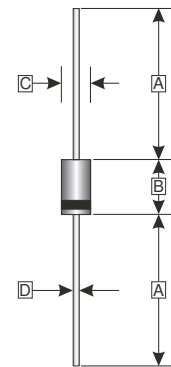
## FEATURES

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

## MECHANICAL DATA

- Cases: DO-41
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Lead free plating (Tin finish)  
Solderable per MIL-STD-202, Method 208
- Polarity: Cathode band
- Weight: 0.318 grams (approximately)

**DO-41**



REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	4.10	5.21
C	2.00	2.72
D	0.70	0.90

## 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 Repetitive Peak Reverse Voltage	$V_{RRM}$	200	V
Maximum RMS Voltage	$V_{RMS}$	140	V
Maximum DC Blocking Voltage	$V_{DC}$	200	V
Maximum Average Forward Rectified Current	$I_F$	1	A
Peak Forward Current @ 8.3 ms Half Sine	$I_{FSM}$	30	A
Maximum Instantaneous Forward Voltage @ 1.0A	$V_F$	0.9	V
Maximum DC Reverse Current at Rated DC Blocking Voltage <sup>3</sup>	$I_R$	$T_C=25^\circ\text{C}$	0.2
		$T_C=100^\circ\text{C}$	2
Typical Junction Capacitance <sup>1</sup>	$C_J$	35	pF
Typical Thermal Resistance <sup>2</sup>	$R_{\theta JA}$	70	°C/W
Operating & Storage Temperature	$T_J, T_{STG}$	-55~150	°C

Notes:

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

**RATINGS AND CHARACTERISTIC CURVES**

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

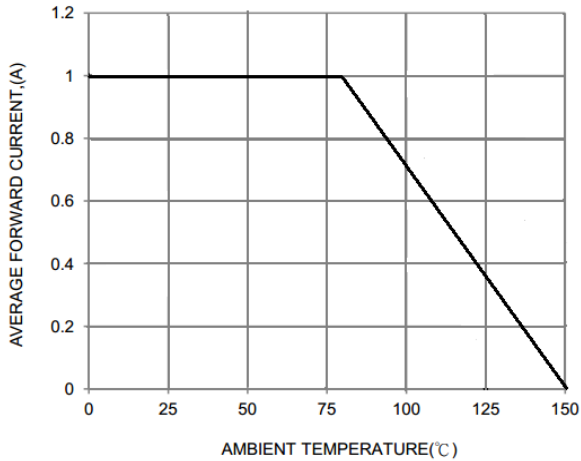


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

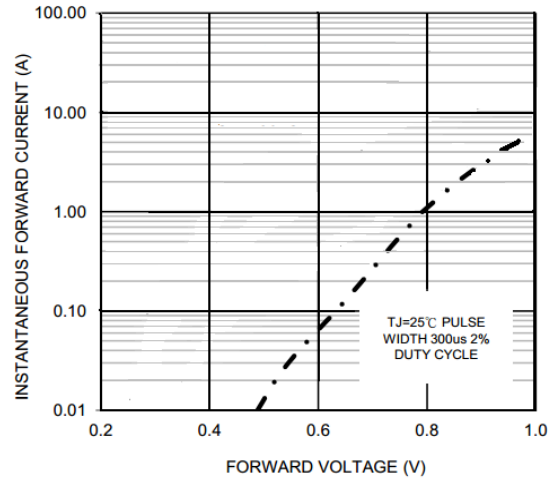


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

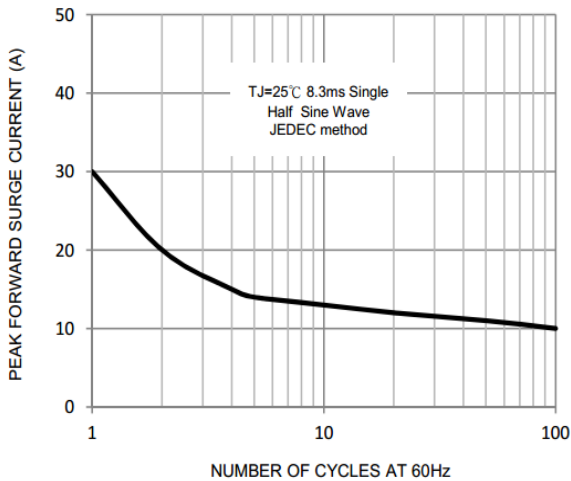


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

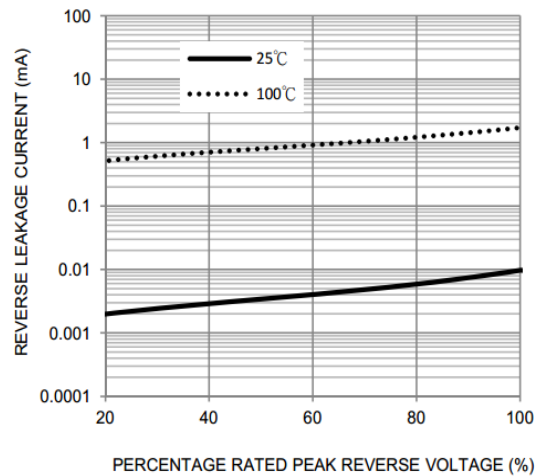


FIG. 5-TYPICAL JUNCTION CAPACITANCE

