

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

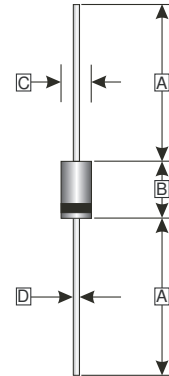
## FEATURES

- Fast switching for high efficiency
- Low forward voltage drop
- High current capability
- Low reverse leakage current
- High surge current capability

## MECHANICAL DATA

- Case : Molded plastic DO-27
- Epoxy : UL 94V-0 rate flame retardant
- Terminals : Solderable per MIL-STD-202 method 208
- Polarity : Color band denotes cathode
- Mounting position : Any
- Weight : 1.1 grams

### DO-27



REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	7.20	9.50
C	4.80	5.60
D	1.10	1.30

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 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	Part Number			Unit
		SE33G	SE34G	SE35G	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	200	400	600	V
Maximum RMS Voltage	$V_{RMS}$	140	280	480	V
Maximum DC Blocking Voltage	$V_{DC}$	200	400	600	V
Maximum Average Forward Rectified Current $T_L=55^\circ\text{C}$	$I_{F(AV)}$	3.0			A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	125			A
Maximum Instantaneous Forward Voltage @ 3.0A	$V_F$	0.92	1.25	1.7	V
Maximum DC Reverse Current At Rated DC Blocking Voltage	$T_J=25^\circ\text{C}$	5.0			$\mu\text{A}$
	$T_J=125^\circ\text{C}$	150			
Maximum Reverse Recovery Time <sup>1</sup>	$T_{RR}$	15	25		nS
Typical Junction Capacitance <sup>2</sup>	$C_J$	60			pF
Typical Thermal Resistance <sup>3</sup>	$R_{\theta JC}$	50			$^\circ\text{C/W}$
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55~150			$^\circ\text{C}$

Notes :

1. Reverse recovery test conditions  $I_F=0.5\text{A}$ ,  $I_R=1.0\text{A}$ ,  $I_{RR}=0.25\text{A}$ .
2. Thermal Resistance junction to lead.
3. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

**RATINGS AND CHARACTERISTICS CURVE**

FIG.1 - FORWARD CURRENT DERATING CURVE

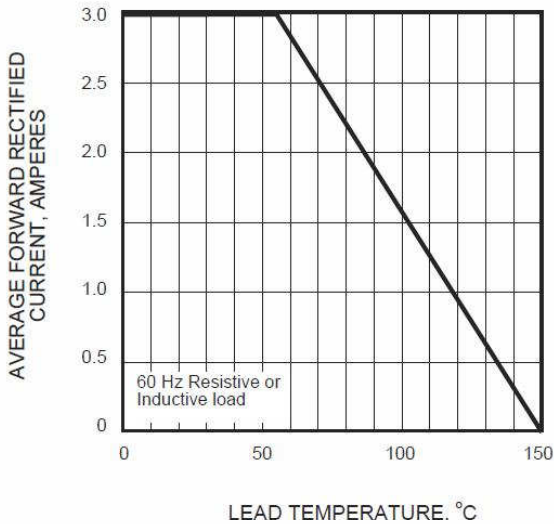


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

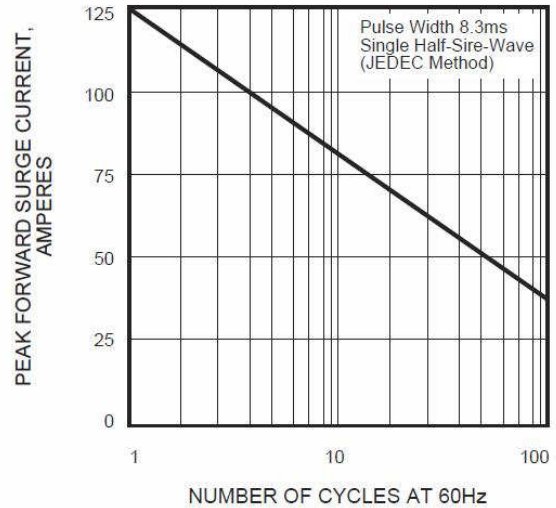


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

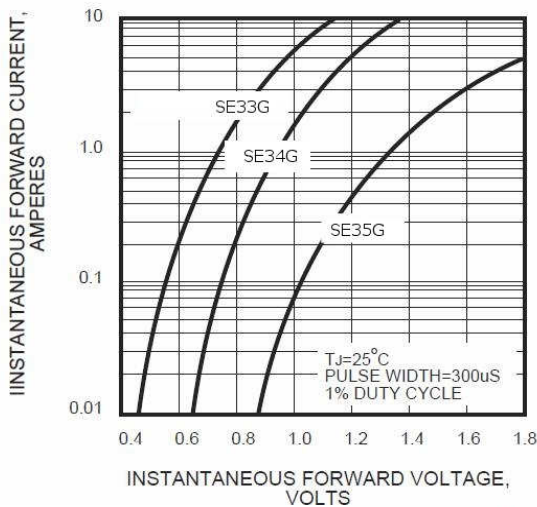


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

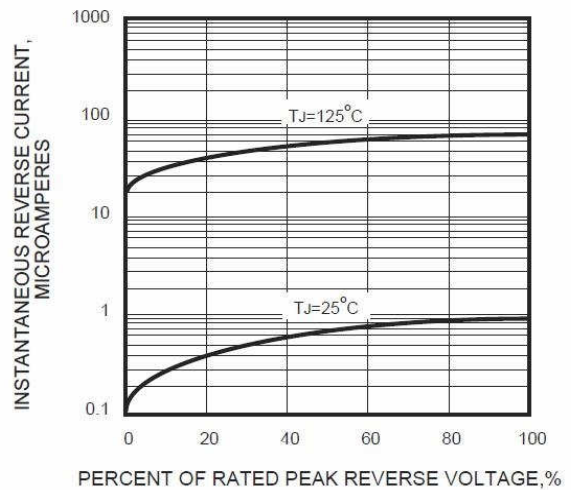


FIG.5 - TYPICAL JUNCTION CAPACITANCE

