

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

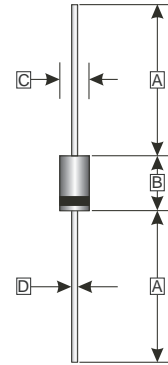
FEATURES

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

PACKAGING INFORMATION

- 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 (approximately)

DO-27



REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	7.20	9.53
C	5.00	5.60
D	1.20	1.32

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}	200	V
Working Peak Reverse Voltage	V_{RWM}	140	V
Maximum DC Blocking Voltage	V_{DC}	200	V
Maximum Average Forward Rectified Current @ $T_A=75^\circ\text{C}$	$I_{F(AV)}$	4	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	150	A
Maximum Instantaneous Forward Voltage	$I_F=4\text{A}$	0.89	V
	$I_F=3\text{A}$	0.875	
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_J=25^\circ\text{C}$	5	μA
	$T_J=150^\circ\text{C}$	150	
Maximum Reverse Recovery Time @ $I_F=0.5\text{A}$, $I_R=1\text{A}$, $I_{rr}=0.25\text{A}$	T_{RR}	25	nS
Operating Temperature Range	T_J	-65 ~ 175	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 ~ 175	$^\circ\text{C}$

Notes:

1. Pulse Test: $t_p=300\mu\text{s}$, Duty Cycle < 2%
2. Lead length=1/2" on P.C. board with 1.5" x 1.5" copper surface

RATINGS AND CHARACTERISTIC CURVES

FIG.1 FORWARD CURRENT DERATING CURVE

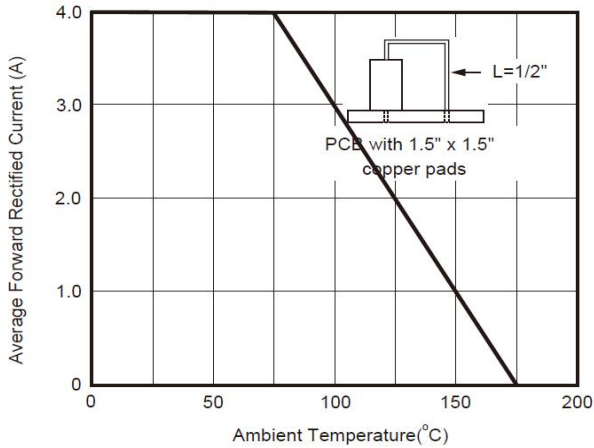


FIG.2 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

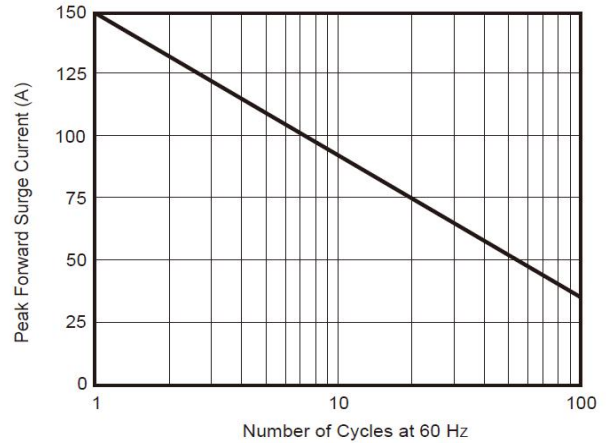


FIG. 3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

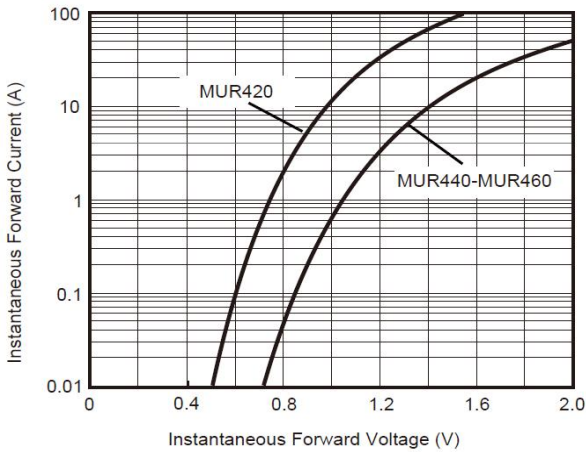


FIG 4. TYPICAL REVERSE CHARACTERISTICS

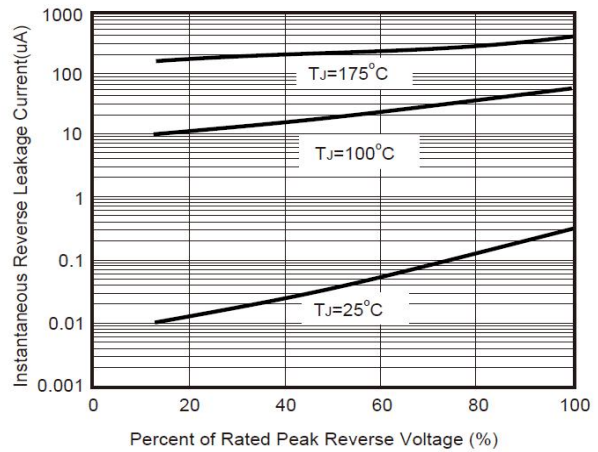


FIG.5 TYPICAL JUNCTION CAPACITANCE PER LEG

