Elektronische Bauelemente

MUR460

600V, 4A

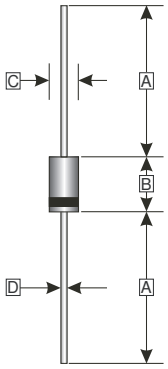
Ultra Fast Rectifiers

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
- High speed switching

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

PACKAGING INFORMATION

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Color band denotes cathode end
- Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25℃ unless otherwise specified)

Parameter		Symbol	Rating	Unit
Repetitive Peak Reverse Voltage		V_{RRM}	600	V
Average Rectified Output Current@ 60Hz half-sine wave, resistance load, see fig. 1		I_O	4	A
Non-repetitive Surge Forward Current@ 60Hz half-sine wave, 1 cycle, T_A=25℃		I_{FSM}	100	A
Maximum Instantaneous Forward Voltage@ drop per diode, I_{FM}=4A		V_{FM}	1.25	V
Maximum DC Reverse Current at related DC Blocking Voltage@ per diode	T_A=25℃	I_R	10	μA
	T_A=125℃		100	
Typical Junction Capacitance [1]		C_J	65	pF
Reverse Recovery Time@ I_F=0.5A, I_R=1A, I_{RR}=0.25A		T_{RR}	50	nS
Typical Thermal Resistance from Junction to Ambient		$R_{\theta JA}$	25	℃ /W
Typical Thermal Resistance from Junction to Lead		$R_{\theta JL}$	14	℃ /W
Operating Junction and Storage Temperature Range		T_J, T_{STG}	150, -55 ~ 150	℃

Notes:
1. Measured at 1MHz and applied with 4.0V D.C reverse voltage.

CHARACTERISTIC CURVES

FIG.1: Io-Ta Curve

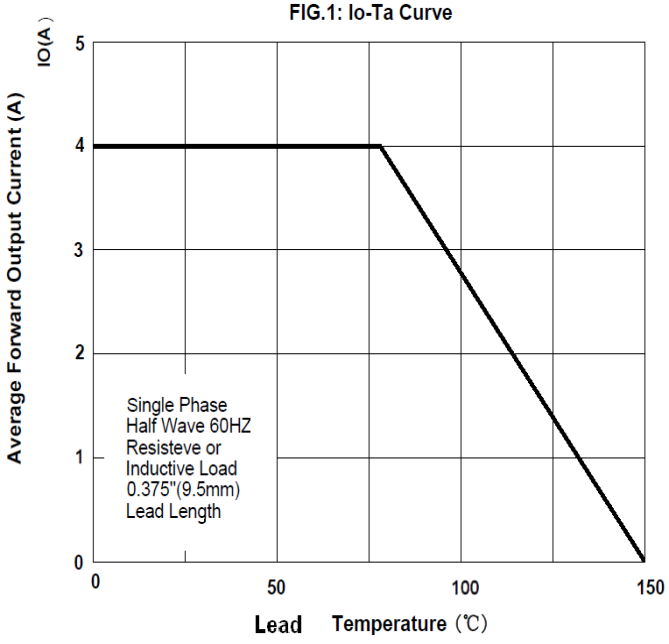


FIG.2: Surge Forward Currrent Capadility

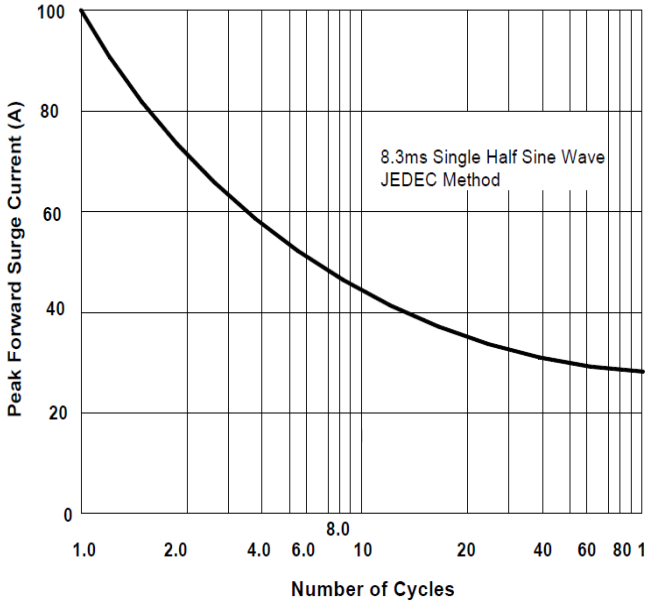


FIG.3: Forward Voltage

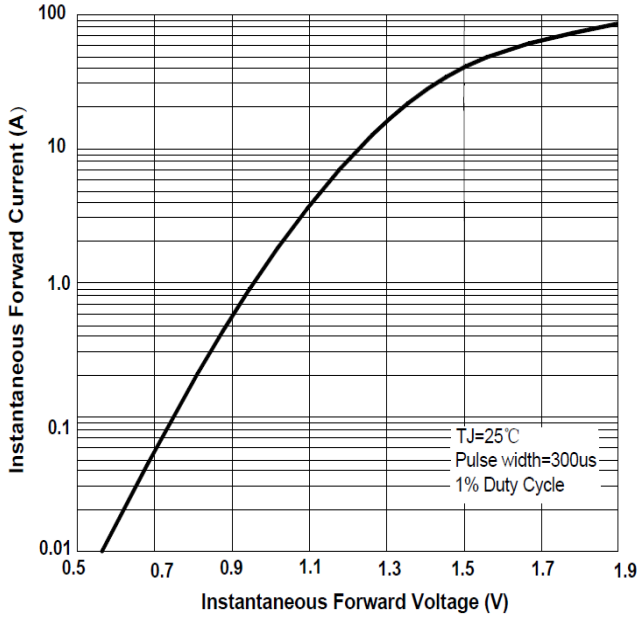


FIG.4: Typical Rrverse Characteristics