沛倫股份有限公司
Compact Technology Corp.

MUR440C THRU MUR460C

ULTRA FAST GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE 600 Volts
FORWARD CURRENT 4 Amperes

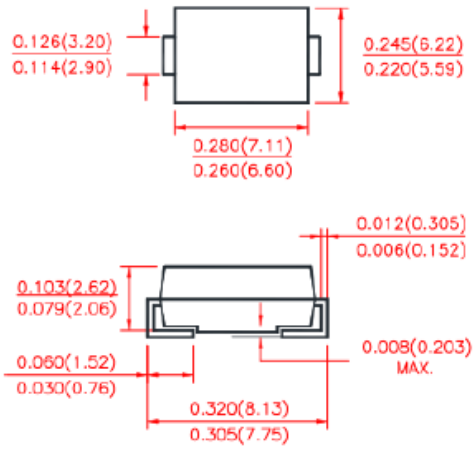
FEATURES

- Low forward voltage drop
- High current capability
- Low power loss, high efficiency
- High reliability
- High surge current capacity
- High temperature soldering guaranteed
- Glass Passivated Chip Junction

MECHANICAL DATA

- Case: DO-214AB (SMC)
- Mounting position: Any
- Weight: 0.088 gram

DO-214AB (SMC)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Characteristics	Symbol	MUR440C	MUR460C	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	400	600	V
Maximum RMS Voltage	V_{RMS}	280	420	V
Maximum DC Blocking Voltage	V_{DC}	400	600	V
Maximum Instantaneous Forward Voltage at 4.0A(NOTE1)	V_F	1.25		V
Maximum DC Reverse Current T_A=25°C at rated DC blocking Voltage at T_A=150°C	I_R	10 250		μA
Maximum average forward rectified current	$I_{F(AV)}$	4		A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load(JEDEC method)	I_{FSM}	200		A
Typical Junction Capacitance	C_J	65		pF
Maximum Reverse Recovery Time (IF= 0.5A, IR= 1.0A, IRR=0.25A)	Trr	50		nS
Typical Thermal Resistance (NOTE3)	$R_{\theta JC}$	28		°C/W
Junction and StorageTemperature Range	T_J, T_{STG}	-55 to +150		°C

NOTES:

1.Pulse test: tP=300μS，duty cycle≤2%.
2.Measured at 1.0MHz and applied reverse voltage of 4.0V
3.Thermal Resistance from Junction to Ambient with 1/2 " Lead length on P.C.Board with 1.5."×1.5 "copper pads.

Rating and Characteristic Curves

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

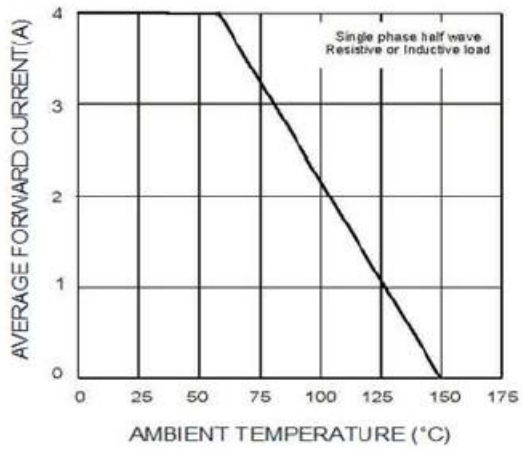


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

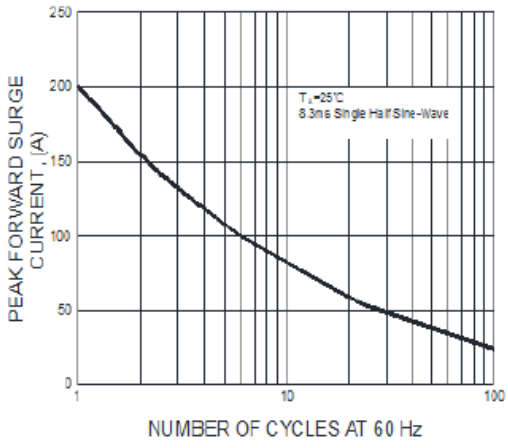


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

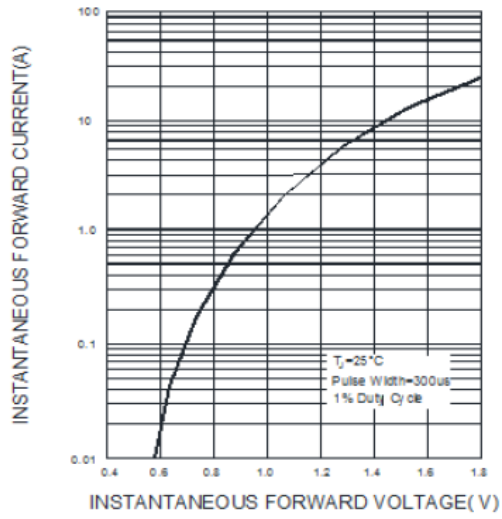


FIG.4-TYPICAL REVERSE CHARACTERISTICS