



WEET Technology Company Limited

Ultra-Fast Recovery Rectifiers

MURS440 THRU MURS460

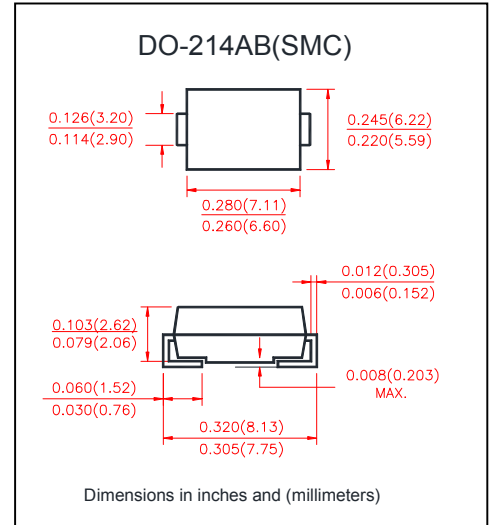
VOLTAGE RANGE 400 to 600 Volts
CURRENT 4.0 Ampere

FEATURES

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

MECHANICAL DATA

- Case: JEDED DO-214AB molded plastic over
- Epoxy: UL94V-0 rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.042ounce, 1.19 gram



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%

	SYMBOLS	MURS440	MURS460	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	400	600	Volts
Maximum RMS Voltage	V_{RMS}	280	420	Volts
Maximum DC Blocking Voltage	V_{DC}	400	600	Volts
Maximum Average Forward Rectified Current	$I_{F(AV)}$	4.0		Amps
Peak Forward Surge Current, 8.3ms single half sine- wave superimposed on rated load (JEDEC method)	I_{FSM}	100		Amps
Maximum Instantaneous Forward Voltage at 4.0A(NOTE 1)	V_F	1.28		Volts
Maximum DC Reverse Current at rated DC blocking Voltage at	I_R	$T_A = 25^\circ C$	10	μA
		$T_A = 100^\circ C$	250	
Maximum Reverse Recovery Time ($I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$)	t_{rr}	50		nS
Typical Junction Capacitance (NOTE2)	C_J	65		pF
Typical Thermal Resistance (NOTE3)	$R_{\theta JA}$	28		$^\circ C/W$
Operating Junction Temperature Range	T_J	(-55 to +150)		$^\circ C$
Storage Temperature Range	T_{STG}	(-55 to +150)		$^\circ C$

NOTE1. Pulse test: $t_p = 300\mu S$, duty cycle $\leq 2\%$.

NOTE2. Measured at 1.0MHz and applied reverse voltage of 4.0V

NOTE3. Thermal Resistance from Junction to Ambient with 1/2 " Lead length on P.C.Board with 1.5."x1.5 "copper pads.



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RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

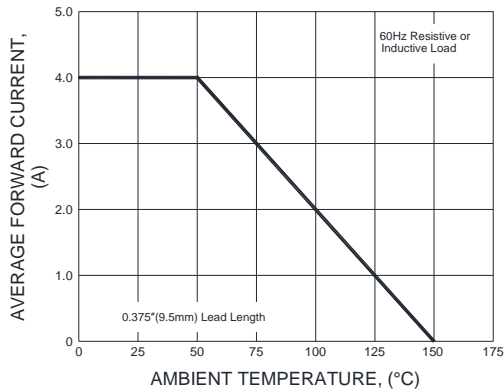


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

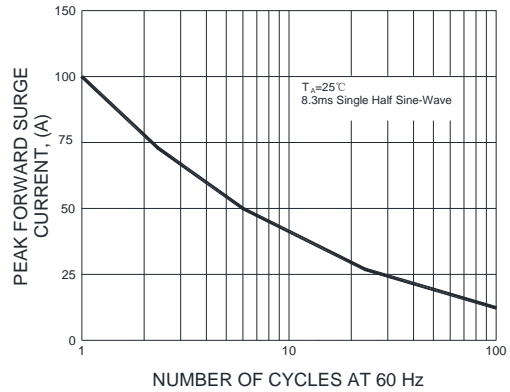


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

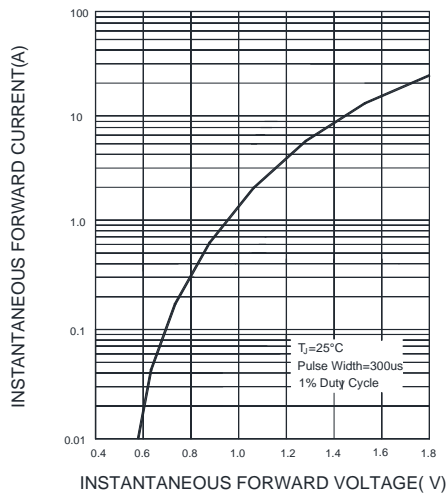
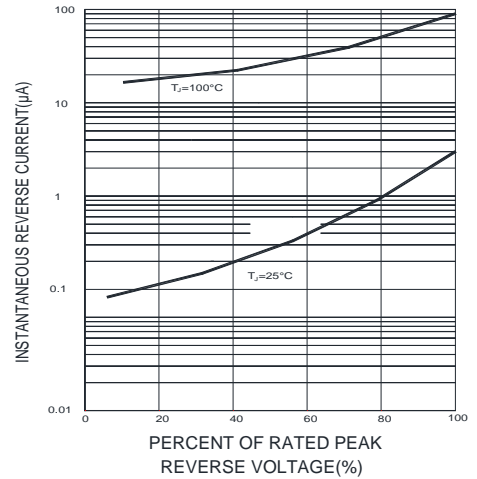


FIG.4-TYPICAL REVERSE CHARACTERISTICS



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.