

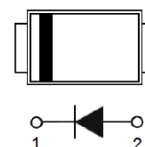
Fast Recovery Rectifier 600V 4A DO-214AB SMC

MURS460C

MERITEK

FEATURES

- Fast Switching for High Efficiency
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- Low Reverse Leakage Current
- Glass Passivated Die Construction
- Application: Switching Power Supply, Power Switching Circuits, PFC and Output Rectification of Battery Charge Station



MECHANICAL DATA

- Case: DO-214AB (SMC), Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Band Marking denotes Cathode end

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Parameter		Symbol	Value	Units
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	600	V
Maximum RMS Voltage		V_{RMS}	420	
Maximum DC Blocking Voltage		V_{DC}	600	
Average Forward Rectified Current		$I_{F(AV)}$	4	A
Peak Forward Surge Current, 8.3ms Single Half-Sine-Wave Superimposed on Rated Load (JEDEC Method)		I_{FSM}	150	
Maximum Forward Voltage	$I_F = 4A, T_A = 25^{\circ}C$	V_F	1.28	V
Reverse Leakage Current	$T_A = 25^{\circ}C$	I_R	10	μA
	$T_A = 125^{\circ}C$		250	
Maximum Reverse Recovery Time		t_{rr}	50	ns
Operating Junction and Storage Temperature Range		T_J, T_{STG}	-65~+175	$^{\circ}C$

Notes:

1. $T_C = 25^{\circ}C$ unless otherwise specified.

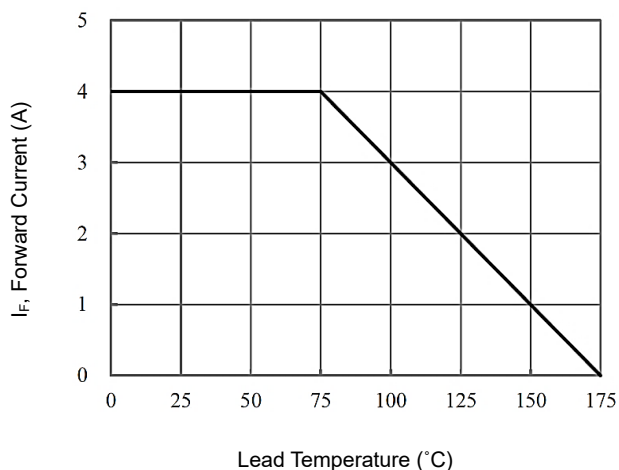
2. Reverse recovery test conditions: $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$.

3. Single phase, half wave, 60HZ, resistive or inductive load.

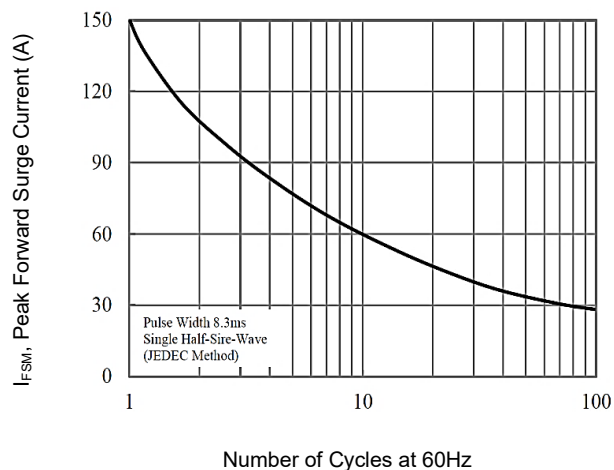
4. For capacitive load, derate current by 20%.

CHARACTERISTIC CURVES

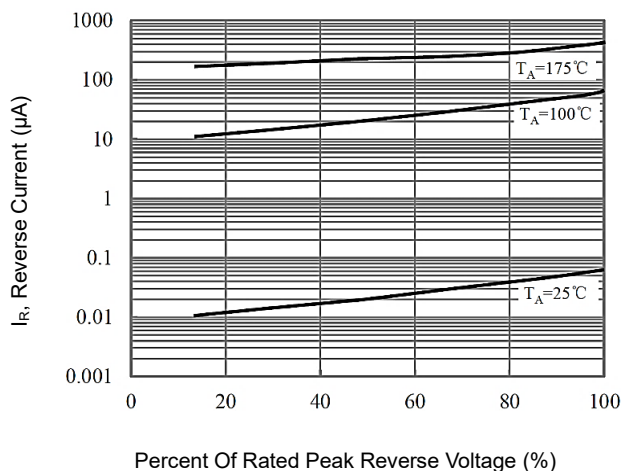
Forward Current Derating Curve



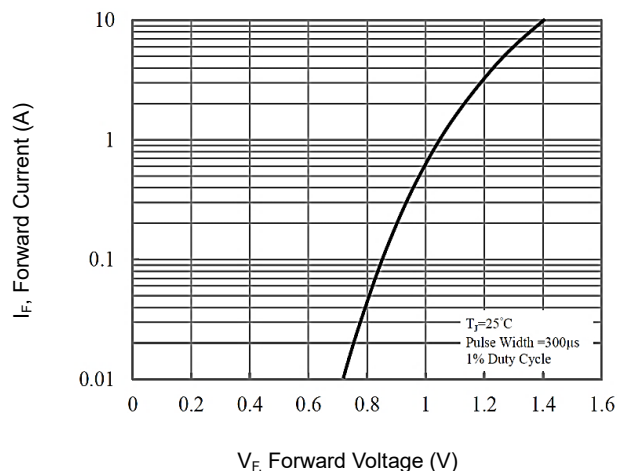
Maximum Non-Repetitive Surge Current



Typical Reverse Characteristics



Typical Forward Characteristics



DIMENSIONS

DO-214AB	Min (mm)	Max (mm)
A	2.750	3.250
B	6.520	7.110
C	5.520	6.220
D	0.152	0.305
E	7.640	8.130
G	0.000	0.203
H	0.760	1.520
J	2.000	2.620
X	2.500	
X1	9.400	
X2	4.400	
Y	3.300	

