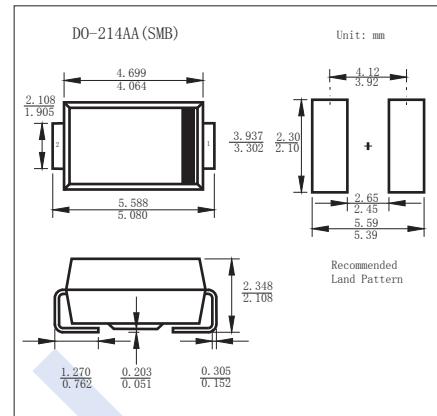


Ultrafast Rectifier Diodes

MURS260 (KURS260)

■ Features

- Glass passivated chip junction
- Ultrafast reverse recovery time
- Low switching losses, high efficiency
- High forward surge capability



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Reverse Voltage	V _{RM}	600	V
Average Forward Current @ T _L =125°C	I _{FAV}	2	
Peak Forward Surge Current @ 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	35	A
Thermal Resistance Junction to Lead	R _{θ JL}	15	°C/W
Junction Temperature	T _J	175	
Storage Temperature range	T _{stg}	-65 to 175	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward voltage	V _F	I _F = 2 A, T _J =25°C			1.45	V
		I _F = 2 A, T _J =125°C			1.2	
Reverse voltage leakage current	I _R	T _J =25°C			5	uA
		T _J =125°C			150	
Reverse recovery time	t _{rr}	I _F =0.5A, I _R =1A, I _{rr} =0.25A			50	ns
Reverse recovery time	t _{rr}	I _F =1A, dI/dt=50A/us, V _R =30V, I _{rr} =10% I _{RM}			75	
Reverse recovery time	t _{rr}	I _F =1A, dI/dt=100A/us, recovery to 1V			50	

■ Marking

Marking	M2J
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Ultrafast Rectifier Diodes

MURS260 (KURS260)

■ Typical Characteristics

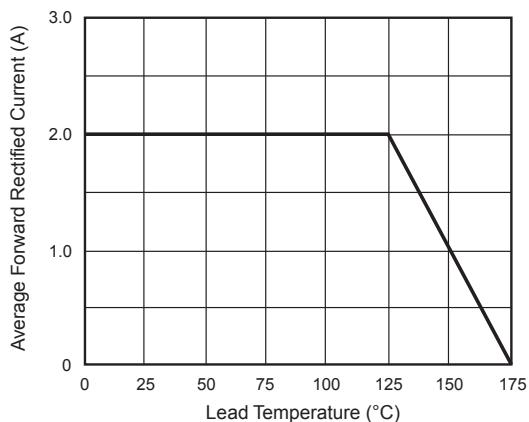


Figure 1. Forward Current Derating Curve

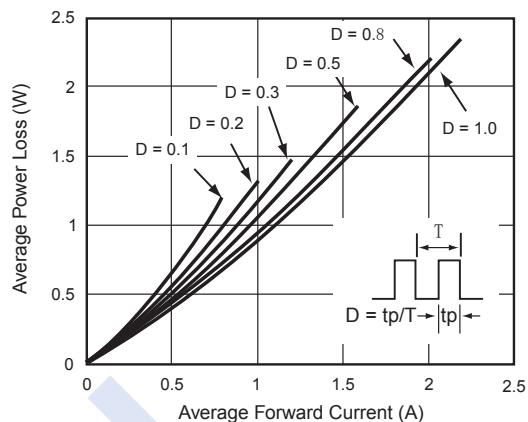


Figure 2. Forward Power Loss Characteristics

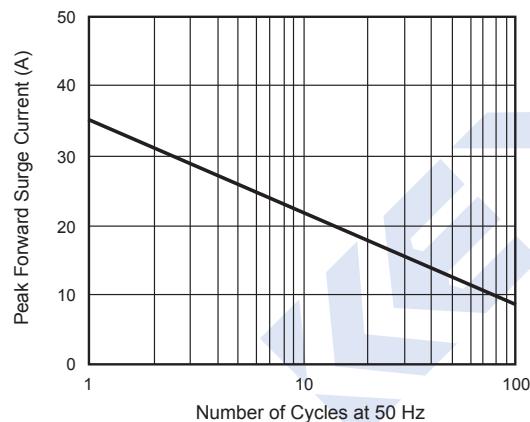


Figure 3. Maximum Non-Repetitive Peak Forward Surge Current

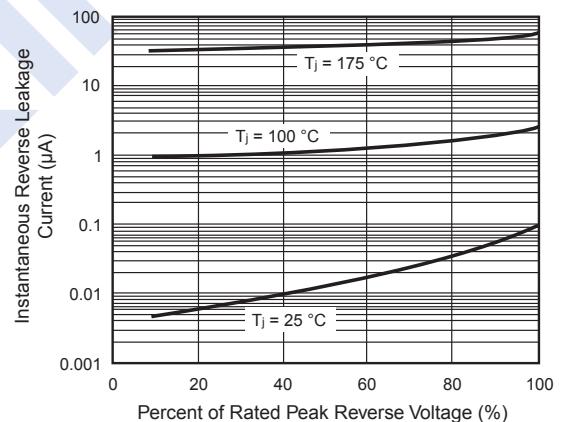


Figure 5. Typical Reverse Leakage Characteristics

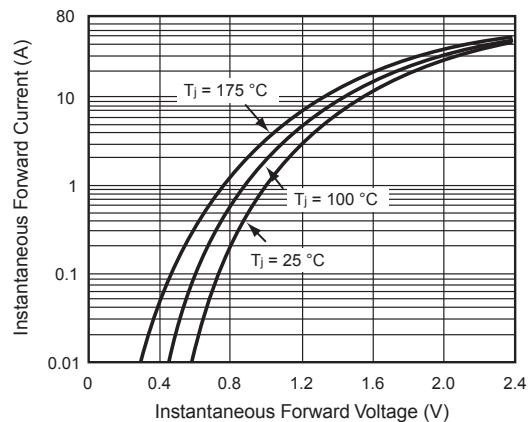


Figure 4. Typical Instantaneous Forward Characteristics

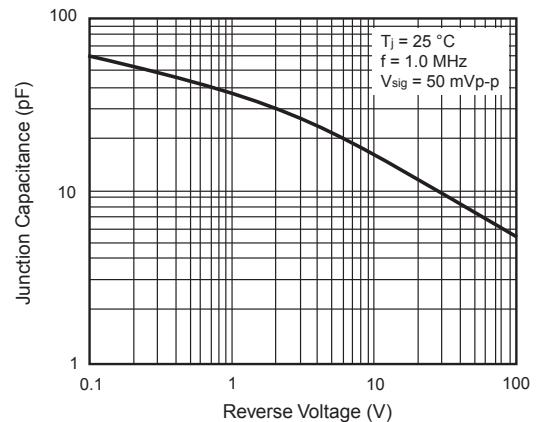


Figure 6. Typical Junction Capacitance