

TO-3P/TO-247 Plastic-Encapsulate Diodes

Super Fast Recovery Rectifier Diodes

Features

- $I_{F(AV)}$ 60.0 A
- V_{RRM} 200V-600V
- High surge current capability
- Polarity: Color band denotes cathode

TO-3P/TO-247



Applications

- Rectifier

Marking

- MUR60XX
XX : From 20 To 60

Limiting Values(Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	KMUR60		
				20PT	40PT	60PT
Repetitive Peak Reverse Voltage	V_{RRM}	V		200	400	600
Maximum RMS Voltage	V_{RMS}	V		140	280	420
Maximum DC Blocking Voltage	V_{DC}	V		200	400	600
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, $T_L=50^\circ\text{C}$	60.0		
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave, 1 cycle, $T_a=25^\circ\text{C}$	450		
Operation Junction and Storage Temperature Range	T_J, T_{STG}	$^\circ\text{C}$		-55 ~ +150		

Electrical Characteristics (T=25°C Unless otherwise specified)

Item	Symbol	Unit	Test Condition	KMUR60		
				20PT	40PT	60PT
Maximum Peak Forward Voltage	V_{FM}	V	$I_{FM}=30\text{ A}$	0.98	1.3	1.60
Maximum Peak Reverse Current	I_{RRM2}	μA	$V_{RM}=V_{RRM}$	$T_J=25^\circ\text{C}$		
	I_{RRM1}			$T_J=125^\circ\text{C}$		
Reverse Recovery time	t_{rr}	ns	$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{ir}=0.25\text{A}$	50		
Typical Junction Capacitance	C_j	pF		185		135

Typical Characteristics

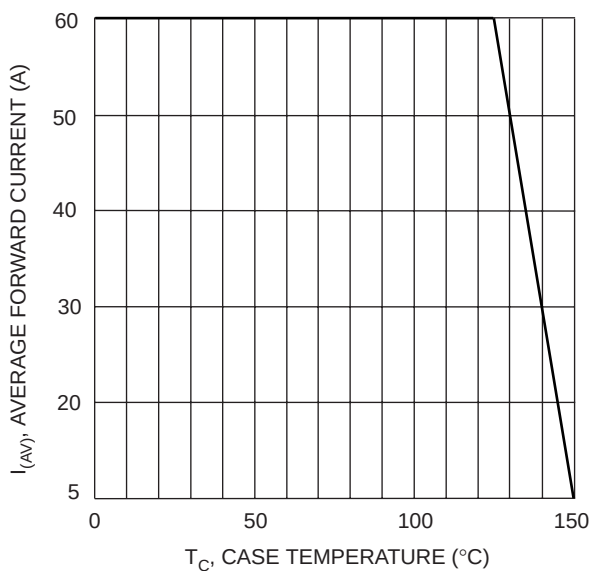


Fig. 1 Forward Current Derating Curve

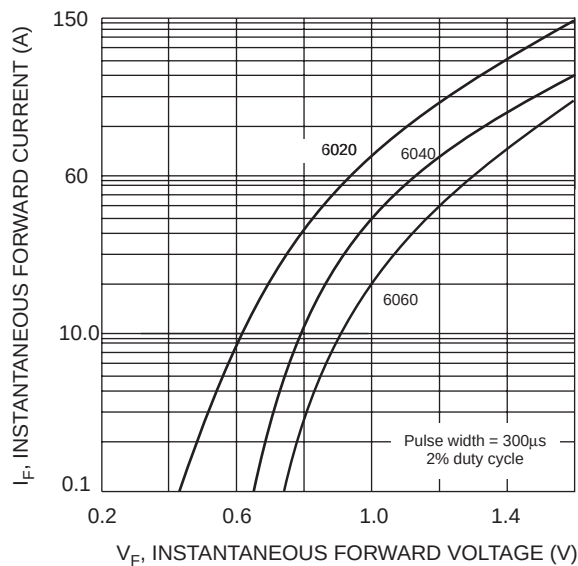


Fig. 2 Typical Forward Characteristics

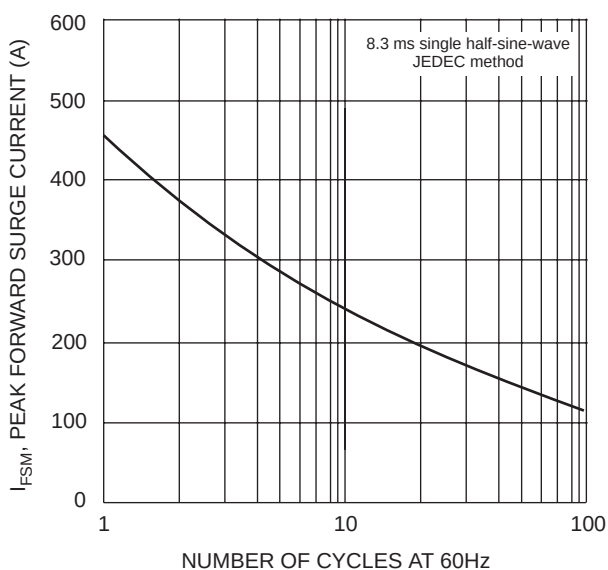


Fig. 3 Max Non-Repetitive Surge Current

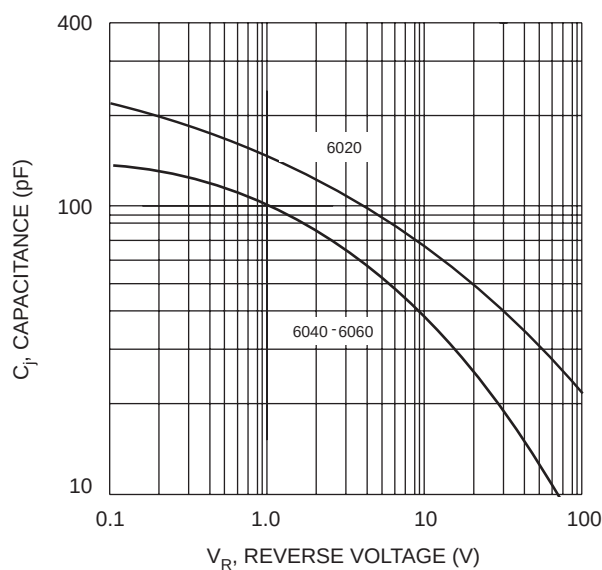


Fig. 4 Typical Junction Capacitance

TO-3P/TO-247AD Package Outline Dimensions

TO-3P/TO-247AD

