

Plastic Epitaxial Fast Recovery Rectifiers

Features

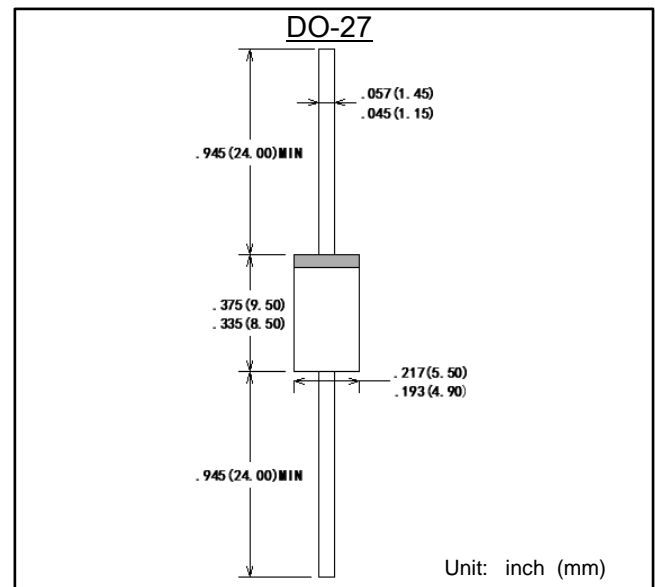
- Guardring for overvoltage protection
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed

250°C /10 seconds at terminals

Lead free in comply with EU RoHS 2011/65/EU directives

Mechanical Data

- Case: DO-201AD/ DO-27
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.98 g /0.0345oz



Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Parameter	SYMBOLS MARKING	MUR420	MUR440	MUR460	MUR480	MUR4100	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	200	400	600	800	1000	V
Maximum average forward rectified current	I _{F(AV)}	4.0					A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I _{FSM}	100					A
@I _F =4.0A Maximum forward voltage	V _F	0.89	1.28		1.70		V
Maximum reverse current	I _R	10					μA
		100					
I _F =0.5A , I _R =1.0A ,I _{RR} =0.25A MAX. reverse recovery time	T _{RR}	25	50		75		nS
Typical thermal resistance (Note 1)	R _{θJA}	25					°C/W
V _R =4.0V, f=1MHz Type junction capacitance	C _J	185			150		pF
Operating junction and storage temperature rang	T _J , T _{STG}	-55 --- +150					°C

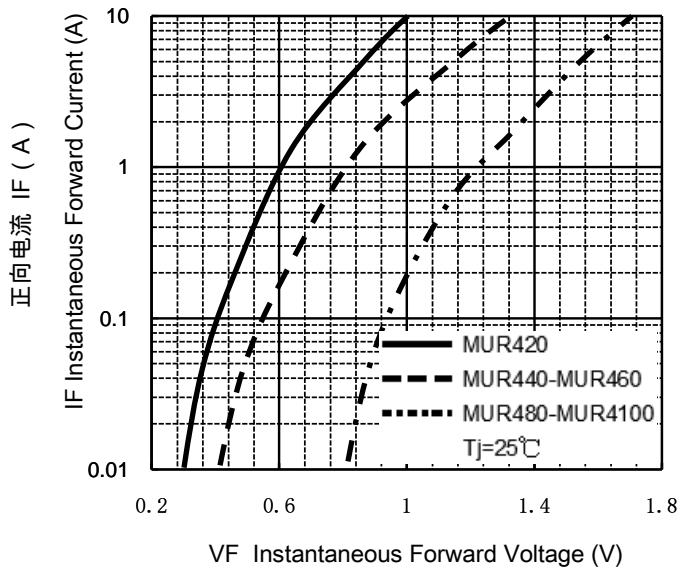
Note:

1) Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, PCB mounted.

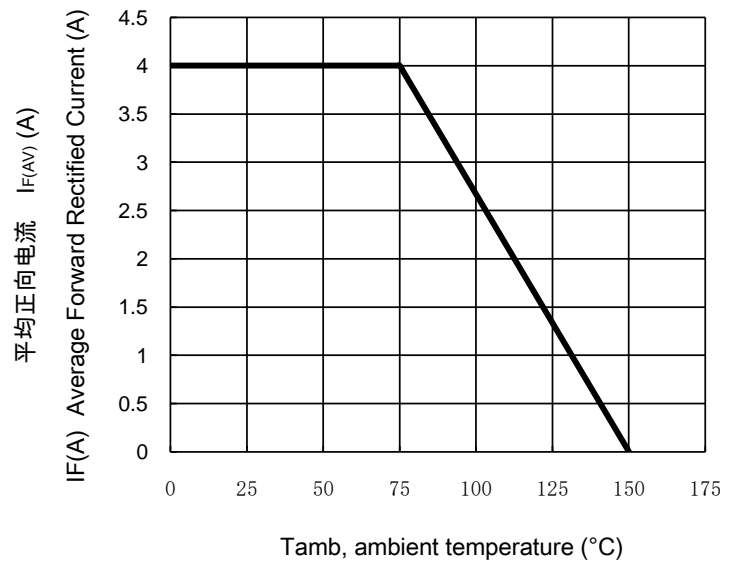
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Characteristic Curves

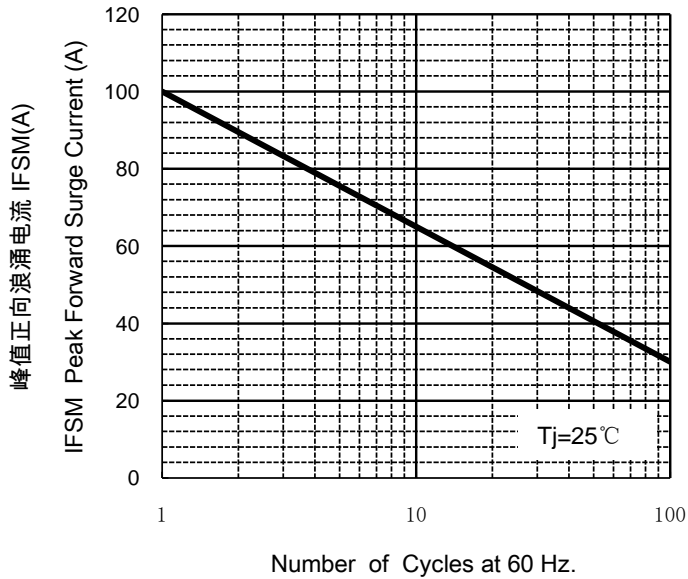
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



Typical Reverse Characteristics

