

40HFL100S05

Standard Recovery Diodes

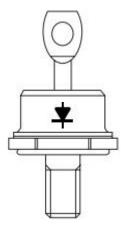
FEATURES

- · High surge current capability
- · Stud cathode and stud anode version
- Designed and qualified for industrial and consumer level
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Battery charges
- Converters
- Power supplies
- Machine tool controls

ABSOLUTE MAXIMUM RATINGS



Case Style DO-5

SYMBOL	PARAMETER	CONDITIONS		VALUE	UNIT
V _{RRM}	Repetitive Peak Reverse Voltage			1000	v
I _{F(AV)}	Average Forward Current	Tc=140℃, 180° conduction, half sine wave		40	A
IF _(RMS)	Max. RMS forward current			62	A
	Surge Forward Current	t=10ms	No voltage	570	- A
Ifsm		t=8.3ms	reapplied	595	
		t=10ms	100%V _{RRM}	480	
		t=8.3ms	reapplied	500	
	I ² t for fusing	t=10ms	No voltage	1600	- A ₂ s
l²t		t=8.3ms	reapplied	1450	
		t=10ms	100%V _{RRM}	1150	
		t=8.3ms	reapplied	1050	
TJ	Junction Temperature			-65~190	°C
T _{stg}	Storage Temperature			-65~190	°C



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THERMAL CHARACTERISTICS

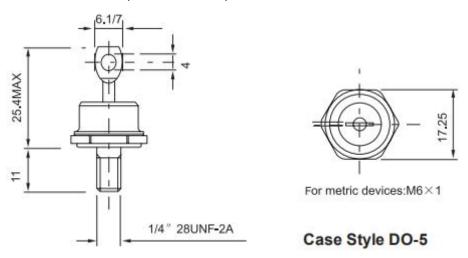
SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.95	°C/W

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	МАХ	UNIT
Vfm	Forward Voltage drop	I _F = 125A, T _J = 25℃, t _p =400us	1.95	V

PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394")



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