D45XT160 Bridge Diodes 1600V, 45A

Feature

- Compact SIP
- UL E142422
- Pb free terminal
- RoHS:Yes

OUTLINE



Equivalent circuit



Absolute Maximum Ratings (unless otherwise specified : Tc=25°C)

Item	Symbol	Conditions	Ratings	Unit	
Storage temperrature	Tstg		-40 to 150	°C	
Junction temperature	Tj		150	°C	
Repetitive peak reverse voltage	V _{RRM}		1600	V	
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, With heatsink, Tc=97°C	45	А	
Average forward current	I _F (AV)	50Hz sine wave, Resistance load, Without heatsink, Ta=26°C	4.6	А	
Surge forward current	I _{FSM}	60Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25°C	360	А	
Surge forward current	I _{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, per diode, Tj=25°C	330	А	
Current squared time	ľt	1ms≦t<10ms, per diode	544.5	A ² s	
Dielectric strength	Vdis	Terminals to case, AC 1 minute, Except top (opposite side of the terminal side) of the mold case	2.5	kV	
Mounting torque	TOR	(Recommended torque : 1.2N·m)	1.5	N∙m	

* : See the original Specifications

Item	Symbol	Conditions	Ratings			Unit
			MIN	ТҮР	MAX	onit
Forward voltage	V _F	IF=15A, Pulse measurement, per diode			1.05	V
Reverse current	I _R	VR=1600V, Pulse measurement, per diode			100	μA
Thermal resistance	Rth(j-c)	Junction to case			0.5	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient			16	°C/W

* : See the original Specifications

CHARACTERISTIC DIAGRAMS





unit:mm

scale: 2/1





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